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# SEEDS

FIELD • VEGETABLE • AND • FLOWER

ANNUAL • CATALOG  
PLANTERS • GUIDE



1927

SPOKANE SEED  
COMPANY

906-8-10 FIRST AVE., SPOKANE, WN.

# WHEN AND HOW TO ORDER

**S**END in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this Catalog reaches you, and if you do not want all sent now we will send part now and the balance later. The advantage of this is that your order is entered and filled or stock reserved so the complete order or any part can be sent upon notice without delay. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits. If shipped early, they are at buyer's risk.

**PRICES.** The prices named in this catalog are those prevailing at the time the catalog goes to press and are subject to market changes in value. Your order will be figured at the price prevailing at the time same is received and where lower you will be protected and refund made according to price. As prices usually advance on many items, toward the planting season, it will be to your advantage to order early.

**OUR TERMS ARE STRICTLY CASH WITH ORDER** where arrangements for credit have not been previously made.

**SEEDS POSTPAID BY MAIL.** We send all vegetable and flower seeds in quantities of ten pounds or less by mail, postpaid, to any Postoffice in the United States, at the prices named in this Catalog unless otherwise stated.

**EXPRESS AND FREIGHT.** Seeds sent by freight or express means that we deliver the goods to the express or railway company. The purchaser pays all transportation charges on goods. On moderate sized orders we advise express shipment rather than freight. Upon delivery of goods to transportation company, a sale is completed. In event of loss or damage to goods in transit the purchaser must have notation of such loss placed upon his receipt, and may then file claim for loss at his station, or may send the necessary papers to us when we shall gladly enter claim for him, remitting to him as soon as the claim is paid. Remember that our responsibility ceases on delivery in good order to the transportation company, and it is therefore imperative that every purchase be carefully examined for loss or damage before receiving it.

## SPECIAL QUOTATIONS ON LARGE ORDERS.

Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity. If in need of something pertaining to agriculture not herein listed, write us before ordering elsewhere.

**COMPLAINTS OR PRAISES.** If you are well pleased with our goods and the manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully and promptly in a way that will please you.

**SEND MONEY** by Postoffice or Express Money Order, Bank Draft or Registered Letter. Postage stamps will be accepted for small amounts. Money sent in any other way is entirely at sender's risk.

**BE SURE TO ORDER EARLY—BEFORE STOCKS ARE DEPLETED.**

**NOTE**—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants we sell and will not be in any way responsible for the crop.—Spokane Seed Company.

## PARCEL POST RATES

**PARCEL POST RATES** are based on **DISTRICTS** and **ZONES**. **THE DISTRICT** includes the office where mailed and the rural routes therefrom.

**A DISTRICT RATE OF 7 CENTS** for the first pound and **1 cent** for each additional two pounds or fraction thereof up to **70 lbs.** (the district weight limit) is charged between points in this district.

**First and Second Zones** cover a radius of **150 miles** from the point of mailing, having a weight limit of **70 pounds** and a rate of **7 cents** for the first pound and **1 cent** for each additional pound, or fraction thereof. **The Third Zone** also has a weight limit of **70 pounds**.

**SIZE AND WEIGHT.** A Parcel Post package may weigh from **4 ounces** to **70 pounds** for the first, second and third zones—with a **50-pound** weight limit for fourth to eighth zones, and **must not exceed** in size **84 inches** in length and girth combined.

**Four Ounces** or less will be charged for at **1 cent** per ounce or fraction thereof, **except** on Books, Seeds, Plants, Bulbs, etc., which are **1 cent** for **2 ounces** up to **8 ounces** for any distance.

We have catalogued the weight of most items mailable by Parcel Post, and by reference to the table you can always figure your postage.

**DAY OLD CHICKS AND BEES** Can Not Be Sent C. O. D. Parcel Post.

Parcel Post Rates apply to Seeds, Plants and Books weighing over 8 ounces. Other fourth-class matter over 4 ozs. is charged at pound rates.		First Pound or Fraction Thereof	Each Additional Pound or Fraction
Local or District Rate—Spokane Office and Rural Routes therefrom...		\$0.07	\$0.01
1st Zone, up to and including a radius of 150 miles from the point of mailing...		.07	.01
2nd Zone of mailing...		.08	.02
3rd Zone...		.09	.04
4th Zone...		.10	.06
5th Zone...		.11	.08
6th Zone...		.13	.10
7th Zone...		.14	.12
8th Zone...			
			Weight Limit, 70 lbs.
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## ASPARAGUS

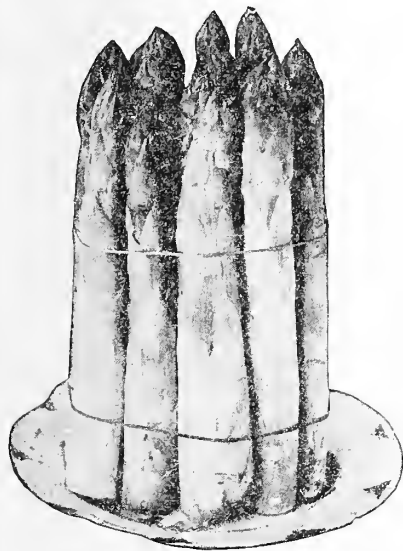
One of the earliest Spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply and is a profitable market crop. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the average family.

**Culture**—Soak seeds 24 hours in warm water, sow early in drills one foot apart. One ounce of seed will sow about 300 feet of drill. Keep soil mellow and free from weeds. After one year's growth transplant into permanent beds, carefully prepared by working to a depth of 24 inches, manuring deeply, using old manure and bone meal: 5 feet is a convenient width for a bed that will carry three rows, and can be reached without treading upon it. Set plants 18 inches apart in the rows and spread roots out, firming the soil down on them. At no period of its growth should the asparagus crop be allowed to lack of manuring. From one to two years' time can be saved by buying roots of the best. See plant department, 7260 roots will plant an acre.

**GIANT WASHINGTON—THE NEW RUST-RESISTING ASPARAGUS**—The U. S. government in its experiments developed the new varieties of Washington, Mary Washington, and Martha Washington Asparagus as showing the best results. Our grower of Giant Washington Asparagus seed under the supervision of the U. S. government has produced the superior asparagus we are listing under the name, "Giant Washington." This was produced by breeding the female plants Martha and Mary to the male plant Washington, combining the best characteristics of the three. This seed is grown especially for us, and our plants are all grown from this seed by one of our best growers. Be sure to get the genuine. Pkt. 10c; oz. 40c; ¼ lb. \$1.00; lb. \$3.25, postpaid.

a superior canning variety, color light green. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**PALMETTO**—The favorite green asparagus. Extra early and the uniformity large stalks remain tender longer than other varieties, being in prime condition for some days after coming above the ground. Palmetto is disease resistant, and a heavy, sure cropper. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.



**ARGENTEUIL**—A popular French asparagus of great merit; larger and lighter in color and said to be superior to Palmetto; of vigorous, even growth; very early and free from disease. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**CONOVER'S COLOSSAL**—A large and rapid grower of excellent quality. This is the famous "Bouldin Island" Asparagus,

See Page 52 for Asparagus PLANTS

## ARTICHOKES

**LARGE GREEN GLOBE**—The variety used as a table vegetable. The edible portion is the thick end of leaf of the flower head. Sow early in drills and when about ten inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens. The seedlings are variable and for market gardening they are generally propagated from cuttings. The buds when in blossom resemble huge thistles and the foliage being highly ornamental, this variety is much used for hedges and display in parkings. Pkt. 10c; oz. \$1.00.

**NEW FRENCH**—Tubers planted and cultivated the same as potatoes. A superior quality and much higher yielding than the common varieties. Of great value for feeding stock, the best hog feed known; remarkable for fattening properties,

great productiveness (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. Turn the hogs into the field, and they will help themselves by rooting. One acre will keep from twenty to thirty hogs in condition from October until April, highly recommended for milch cows, increasing yield of milk and at the same time improving their condition. Plant 10 bushels per acre. 10 lbs. \$1.00, postpaid; 100 lbs. \$3.00, f. o. b. Spokane.

**JERUSALEM—White**—Produces tubers like potatoes, grown the same way. A fine vegetable for the table as well as a valuable hog feed. 10 lbs. \$1.00, postpaid; 100 lbs. \$2.50, f. o. b. Spokane.

**Note**—Tubers on hand from February.

## BEETS

**Culture**—The beet is hardy and may be planted as soon as ground can be well prepared, doing best in rich, sandy soil, sown in rows sixteen inches apart, covered one and one-half inches deep. Seed will sprout better if soaked 12 hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the rows. For field crop, rows should be far enough apart to permit the use of a horse cultivator.

**S. S. CO.'S MARKET GARDENER**—This extra early Beet is remarkable for its fine quality and rapid growth; deep red color, and handsome shape; as an early market sort it is unrivaled. It is superseding Egyptian, being earlier in development, more attractive and of superior quality for the table, holding its color and cooking quickly. Market gardeners prefer it as it matures evenly, stands a long time and does not split. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**DETROIT DARK RED TURNIP**—A fine beet for bunching for market; tops exceptionally small and uniformly upright. Roots are perfect turnip shape with small tap roots. One of the deepest red beets. Quality the finest. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**EARLY MODEL**—A splendid, handsome, extra early variety, well liked by the market gardener. Globular in shape, medium size, smooth, dark red color. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

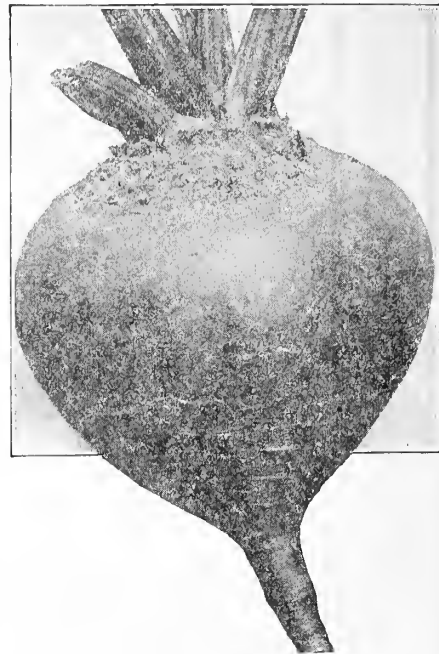
**EARLY ECLIPSE**—One of the best early sorts; possesses all the qualities requisite in a first class beet, and is of a uniform, globular shape. The roots are a bright, glossy red, fine-grained and delicious. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**EXTRA EARLY EGYPTIAN**—The best variety for forcing, and for market gardeners; being very early with small tops. Roots very dark red, rounded on top, but flat beneath, with very small tap roots. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**LONG SMOOTH DARK BLOOD**—The leading late variety, keeping well all Winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**HALF LONG BLOOD**—A variety of excellent quality. One of the very best for Winter use; does not become woody and keeps as well as Long Dark Blood. Root is smooth and handsome, flesh brilliant color and as good in quality as the best Blood Turnip varieties. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**EARLY BLOOD TURNIP—IMPROVED**—An extra selected stock of Blood turnip having larger, coarser tops and roots than the Detroit Dark Red, and requiring a longer time to mature. Excellent for Summer and Autumn use. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.



*See Page 8 for Swiss  
Chard*

## MANGEL WURTZEL

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food during the Winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but do not produce as heavily.

**Culture of Mangel and Sugar Beets**—Thoroughly fine soil as good roots cannot be grown in lumpy, poorly prepared ground. The largest crops come from a soil ranging from light to a friable clay loam that has received from eight to fifteen loads of manure to the acre. This can be plowed in or half broadcast and half used in the furrows; plowing in of fresh manure in the Fall is best. It is also necessary to add some commercial fertilizer, but any good soil will grow a fair crop.

Use 6 to 10 lbs. of seed per acre, depending on whether machine or hand planting, sowing liberally so that in thinning an even stand can be secured. Rows 18 to 30 inches apart. Level culture is best. If planted in dry weather, be sure seed is in from one to one and one-half inches as it requires lots of moisture to burst the hard shell.

A poor stand and weak germination is often due to improper planting and lack of moisture. Transplanting can be successfully done to fill vacancies. Do this before a shower, and early, breaking off tops of larger leaves.

**S. S. CO.'S HEAVIEST CROPPER**—A wonderful improvement on existing stocks of Yellow Mangels, one of the heaviest croppers and easiest pulled, of very fine quality. The small foliage permits it to be left comparatively thick in the rows and weight per acre is therefore enormous. It is considered distinct over all other kinds and one of the largest and best Yellow Mangels. Pkt. 5c; ½ lb. 30c; 1 lb. 55c; 10 lbs., postpaid \$5.00.

**YELLOW GIANT, INTERMEDIATE OR GATE POST**—Roots very large, growing over half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short, never becomes woody, easily harvested. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

**GIANT RED ECKENDORF**—Straight, cylindrical form, very blunt, grows mostly above surface. A very heavy cropper. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

**GOLDEN TANKARD**—Dairy farmers state they are able to obtain a higher price for milk when feeding cows on "Golden Tankard." Sheep thrive on it. A rich, deep yellow throughout. Early, hardy and a heavy cropper. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

**MAMMOTH LONG RED**—An improvement on the Long Red, with ordinary cultivation. Very uniform, smooth, of good shape. Grown in deep loose soil. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

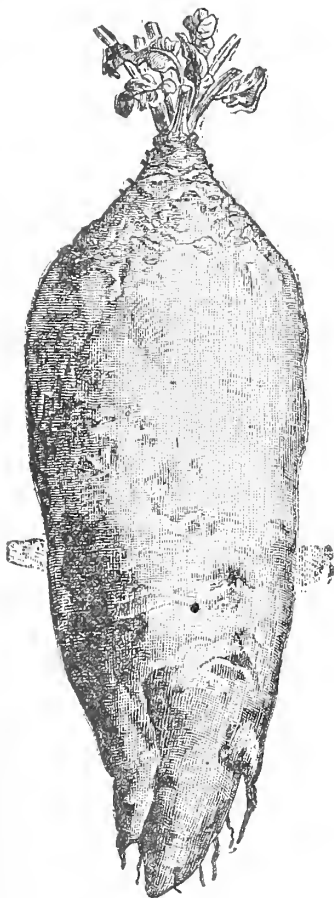
**NEW MANGEL HALF SUGAR**—A new variety valuable for feeding purposes, yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beets. Roots large, very smooth, with few rootlets; creamy white, with medium sized tops. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

**DANISH SLUDSTRUP**—Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first class certificate by Danish Govt. Pkt. 5c; ½ lb. 30c; lb. 55c; 10 lbs. \$5.00, postpaid.

## SUGAR BEET

**KLEIN WANZLEBEN**—This is the standard variety grown commercially for the production of sugar. Pkt. 5c; ½ lb. 35c; lb. 60c; 10 lbs. \$5.50, postpaid.

**WHITE FRENCH OR VILMORIN'S IMPROVED SUGAR**—The best variety for growing for sugar-making. Pkt. 5c; ½ lb. 40c; lb. 65c; 10 lbs. \$5.50, postpaid.



## DWARF OR BUSH BEANS

Owing to our mild Winters and cool Summers, locally grown acclimated seed from properly selected strains will be found to give best satisfaction in the Pacific Northwest. We are constantly testing and selecting the most dependable and profitable sorts and increasing our facilities and connections for local production, and when we offer a variety as being suited to your requirements and location you can accept it without fear of disappointment.

**Culture**—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from eighteen inches to two feet apart, as soon as the ground is dry enough and warm—about May 1st, or later, and for succession up to July 15th. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.

Plant about one pound of Dwarf or Bush Beans to 100 feet of drill, one bushel per acre. Pole Beans—one pound to 100 hills, requiring about one-half bushel per acre. When planted in hills,  $2\frac{1}{2}$  to 3 feet apart, small varieties such as "Navy" and "Lady Washington" will require from 16 to 25 pounds per acre, larger sorts running from 25 to 30 pounds. Owing to their short season of growth, from 60 to 80 days, beans generally make a profitable crop for trucking. After harvesting the beans always plow the vines under to fertilize the soil.

### WAX PODDED VARIETIES

Postpaid, Pkt. 15c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 10 lbs. \$2.50

**PENCIL POD WAX**—The most satisfactory of early dwarf Wax Beans. Of dwarf, bushy growth, about fifteen inches high, large, luxuriant foliage, beneath which in great clusters will be found an enormous crop of beautiful straight yellow pods six to seven inches long, well rounded, deeply "saddle backed," meaty and solid clear through; they are brittle, of rich mild flavor, and entirely stringless. An early sure cropper; of the finest quality.

**GOLDEN WAX**—One of the best dwarf sorts for the home market and private gardens. Plants are erect, compact, and very productive. Pods medium length, nearly straight, very fleshy, broad and flat, golden yellow color. The variety cooks quickly as a snap-bean, shells well when green, and is of superior quality used either way. Dry seeds are medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color may be affected somewhat by conditions of soil and ripening.

**DAVIS WAX**—Rustless and immensely productive, very hardy and one of the best for market gardeners. The dried bean is kidney-shaped, clear white and a favorite for baking and canning.

**SURE CROP WAX**—Black Seed. A sure cropper of fine quality. Superior to Prolific Black Wax. The pods are longer, rather flat, stringless and a better yielder. A good market variety.

**IMPROVED KIDNEY WAX**—A great improvement over the Davis Kidney Wax. Plants of erect habit, robust in growth and very prolific. Pods somewhat flattened but thick and fleshy, of rich creamy color, stringless and of excellent quality. A great bean for the market gardener.

### GREEN PODDED VARIETIES

Postpaid, Pkt. 15c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 10 lbs. \$2.50

**STRINGLESS GREEN POD**—Extra Early. The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. It is of immense value, not only to the market gardener, but also for those who seek early beans of a rare quality for the home table. A splendid dried brown bean.

**BLACK VALENTINE**—Hardy and productive. Vines vigorous, pods nearly round or slightly flattened. Large crop can generally be depended upon. Good shipper.

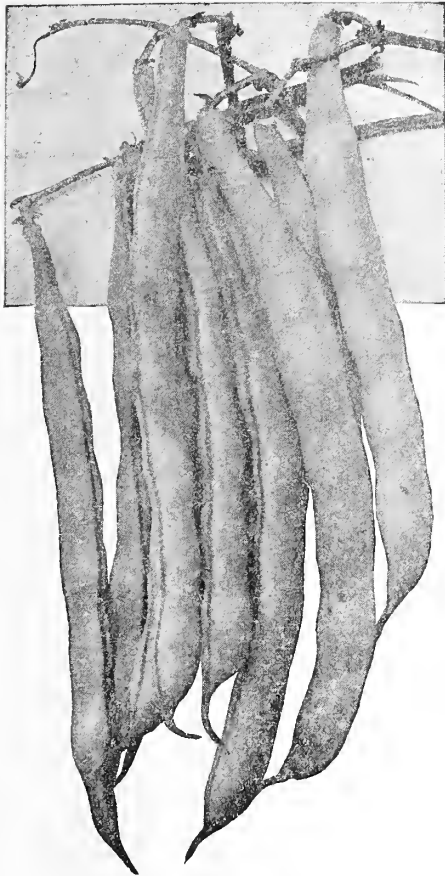
**EXTRA EARLY RED VALENTINE**—This improved strain has a healthy, vigorous growth. The beans are small, but the pods are thick, round and fleshy; very tender, rich and quite stringless. A popular bean for canning green. Bush grows to a height of 15 inches and is very prolific.

**TREE BEAN**—Of sturdy branching habit bearing heavily and ripening early and evenly. The foliage is scant and usually falls before the pods fully mature. The distinctive pure white, rounded form and small size distinguishes this bean from other small white varieties, and we consider it the most desirable for Northwestern growers. The cooking and table qualities are unsurpassed.

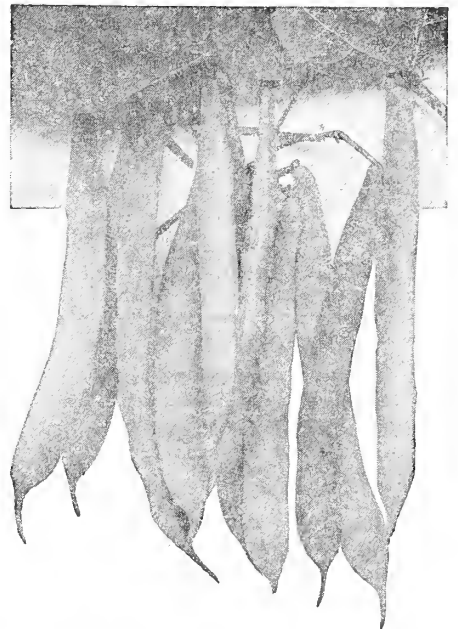
**DWARF HORTICULTURAL or "Cranberry Bean"**—Grows erect, strong and shrubby, and is very prolific. The bean is highly prized, green shelled. It is rather large, plump and beautifully mottled yellow and red; one of the most delicious and desirable beans and a great favorite with market gardeners. The dwarf type of the old favorite London Horticultural Pole Bean.

**STRINGLESS REFUGEE**—A splendid improvement on the Refugee Thousand to One, with which it compares in season and earliness, but is absolutely stringless. Pods are round, more even in length, possibly a little lighter green in color, exceedingly tender and of a delicious flavor. A splendid bean both for snap and canning purposes.

**REFUGEE, or THOUSAND TO ONE**—Of great value on account of its hardiness, vigorous growth and wonderful productiveness. Is not excelled by any other variety as a snap bean, and is considered the best for pickling or canning. Beans small, dark purple, veined brown. Pods of perfect form, dark green, veined purple.



See Page 55  
on Fertilizers



Mulford Culture Increases Yield—See Page 71.

## DWARF OR BUSH BEANS

### Green Podded Varieties Continued

Postpaid, Pkt. 15c; 1/2 lb. 20c; 1 lb. 30c; 10 lbs. \$2.50

**CANADIAN WONDER**—This splendid bush bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green.

**LADY WASHINGTON**—Sturdy, bushy plant, erect habit, and is a great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder; being especially adapted to our Western soils. Pkg. 15c; lb. 25c.

**BROAD WINDSOR**—"Horse Beans"—Stalk erect, strong and shrubby. The bean is large, broad and flat; should be planted early and is best green shelled. A European variety, very hardy and can be planted earlier than other sorts. Grown extensively for stock in some sections.

**BURPEE**—Improved Bush Lima—Both pods and beans are of truly enormous size, some pods measuring five to six inches long. The plant grows in dwarf form, strong and vigorous, producing large numbers of handsome pods, grown in clusters and well filled with Beans which are of a delicious flavor. It is a great improvement over the original Burpee's Bush Lima Bean, being much larger, more productive, and the pods will average more beans to a given number of pods.

**HENDERSON'S BUSH LIMA**—A bush form of Sieva or Small Lima type, which is largely grown by those who prefer the small size beans. The plants grow about 20 inches high and are very productive, bearing continuously throughout the season.

## CLIMBING OR POLE BEANS

Postpaid, Pkt. 15c; 1/2 lb. 20c; 1 lb. 30c; 10 lbs. \$2.50

**CULTURE**—Do not plant until the soil has become warm and the weather settled—and always remember beans should have rich, well drained soil. It is best to set the poles before planting; these should be six to eight feet high, rows about four feet each way. Plant four to six beans to the hill and thin to two or three, depending on the variety. A pound should plant 75 to 100 hills. A top dressing of commercial fertilizer or old manure should be worked in when cultivating.

**SCARLET RUNNER**—A favorite as a shell bean and for its flowers, which are bright scarlet; seeds broad and kidney shaped.

**OREGON POLE LIMA**—The only Bean of its kind that will thrive in our cool climate—It grows a strong thrifty vine and is very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. It can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans and they are ready to use when the pods are filled and first begin to ripen. They are at their best when the full green pods begin to turn yellow.

**KENTUCKY WONDER**—A vigorous climber; very prolific, bearing in clusters extremely long and very fleshy, succulent pods, flat, thick and remarkably tender. A first-class pole variety.

**LAZY WIFE**—Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless of unusually rich flavor. Dry beans, pure white, excellent for winter use.

**OREGON GIANT GREENPOD**—The large fleshy pods 10 to 12 inches in length are free from all stringiness and are tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning. "Oregon Giant" is a strong grower and yields heavily, bearing its enormous pods in great clusters. The color is a light greenish yellow, splashed red.

**KENTUCKY WONDER WAX**—The pride of the Garden. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious beans. They are firm, entirely stringless, and when cooked, deliciously rich and buttery.

**ITALIAN OR ROMAN**—Very desirable for the family garden. Vines vigorous; pods green, streaked with red. Bean large, oval, cream colored, beautifully splashed with red. Has no superior, green, shelled, or dry.

## BRUSSELS SPROUTS

**BRUSSELS SPROUTS**—Species of cabbage, cultivation the same. One ounce will grow a bed 4 square feet and produce about 3000 plants. This is a delicious vegetable, superior to either Broccoli or Spinach. The cabbage-like heads which grow upon the stem are much improved by a moderate frost. Sow in hot beds in March or April, and in the open ground in May; cultivate same as Broccoli.

**IMPROVED HALF DWARF**—An improved variety growing about 20 inches high; produces sprouts in abundance, cut out head of plant when sprouts have formed. 125 days. Pkt. 5c, oz. 40c 1/4 lb. \$1.35, postpaid.







## CABBAGE

**CULTURE**—The requisites for complete success are: First—Good seed. There is no other vegetable where the seed has so much influence on the quality of the product, and gardeners should always use the best procurable. Second—Rich, well-prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deeply.

In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing to outside air, and as early as the ground is in good condition, transplanted, setting 18 to 36 inches apart, according to size of variety. The late Autumn and Winter varieties may be sown from the middle to the last of Spring and transplanted when 4 to 6 inches high. Shade and water the late sowings in dry weather to get them up.

**COPENHAGEN MARKET**—A Splendid Cabbage for Home Gardens—A splendid early globe-shaped Cabbage slightly flattened. The large solid heads are very uniform with few outer leaves, keeps well and stands handling. Copenhagen Market is the favorite market variety, and we recommend it to our customers as the best early round head. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50 postpaid.

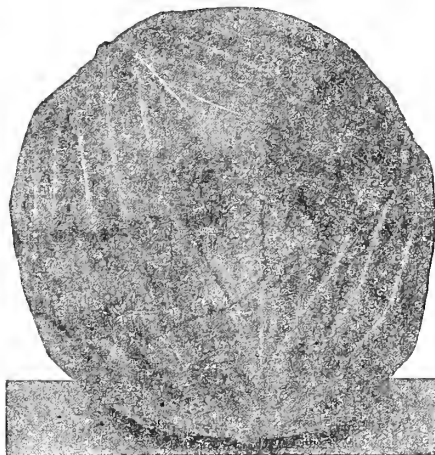
**EARLY JERSEY WAKEFIELD**—The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for Wintering over and very early setting. Grown more extensively for market than any other early cabbage. Is always of good size, very solid, and has but few outside leaves; a reliable header and always gives good satisfaction. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.10, postpaid.

**RED CABBAGE**—Odense Market—Used for pickling. The heads are very fine and remarkably sure heading. The best red cabbage. Pkt. 5c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00, postpaid.

**SAVOY CABBAGE**—Vertus—Late Savoy—Large, compact heads, crisp and tender with a rich flavor. Desirable for cooking or salads. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00, postpaid.

**STEIN'S EARLY DWARF FLAT DUTCH**—Grows low on the stem; a sure header; firm fine grained, tender. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00, postpaid.

**SUCCESSION**—Heads large, slightly flattened; grows low on the stem. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid.



**PREMIUM LATE FLAT DUTCH**—This improved strain possesses the good qualities of the old favorite. "Late Flat Dutch," one of the largest of the late varieties; a sure header. Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$3.00, postpaid.

**CHINESE IMPROVED OR PE-TSAI**—The strain we offer resembles when well grown Cos Lettuce rather than Cabbage. It is often called Celery Cabbage on the market. The leaves when young are crimped, of light green color and appear like smooth leaved mustard but with much broader and heavier midribs. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white midribs. It is of distinct flavor, very mild and pleasant. It is served as a salad like lettuce or cooked like asparagus. Sow in this latitude after July 1st at the same time as turnips. Pkt. 5c; oz. 35c; ¼ lb. \$1.10; lb. \$3.60, postpaid.

**DANISH BALLHEAD**—Our strain of short-stem is imported direct from Denmark, originating on the famous island of Amagar, the vegetable garden of Copenhagen. The fine ribbed leaves are so densely packed together that no space is left for water or air to start decay and the firm solid heads are famed for their superior excellence and keeping qualities. Matures late and when cut shows a fine, hard, snowy white, solid head. The best in its class. Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$2.60, postpaid.

**DANISH ROUND HEAD (Select Short-Stem)**—A round ball shaped cabbage of great solidity. Color, rich dark green, has few outer leaves, is very hardy and a profitable late market variety. Our stock of Round Head is Danish grown and of the same superior quality as the short-stem Ballhead, being one of the latest keepers and best varieties for early Spring market. Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$2.60, postpaid.

### SPRAY YOUR GARDEN and FLOWERS WITH

### "Black Leaf 40"

(Nicotine Sulphate)

The most common sucking insects, with soft bodies, are the aphids (plant lice), thrips and leaf-hoppers. They may be effectively controlled with "Black Leaf 40."

*See Page 56*

## CAULIFLOWER

Don't buy cheap strains of Cauliflower Seed. Only the best select strains can be depended upon to produce a big percentage of large, white, solid heads.

**CULTURE**—The Cauliflower succeeds well in any soil where cabbage will grow, but best results are obtained in rich loam with an abundance of water. By sowing early varieties in a hot bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply, sow seed in a prepared bed in May, choosing a cool, moist place. When large enough transplant, making the rows about 2½ feet apart and 18 inches between plants. In dry seasons the crop must be watered.

**S. S. CO.'S "MT. HOOD" SNOWBALL**—The seed that produces those handsome large white solid heads that bring big profits to the gardener. We offer our "Mt. Hood" Cauliflower seed under our own label, it having been carefully selected and grown for us by one of the expert Cauliflower growers, and is the best strain of "Early Snowball" obtainable. We recommend "Mt. Hood" Snowball for either early or late planting. Pkt. 15c; ¼ oz. 90c; oz. \$2.75; ¼ lb. \$9.00, postpaid.

**DANISH GIANT—DRY WEATHER CAULIFLOWER**—Early, large, solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties, but like all cauliflower must have rich soil and cultivation to give best results. Also does well under moist conditions. Pkt. 15c; ¼ oz. 90c; oz. \$2.75; ¼ lb. \$9.00, postpaid.

**EARLY SNOWBALL**—This is the regular grade of "Early Snowball" that is generally offered, and while it will not give as good results as "Mt. Hood," it can be depended upon to produce a good crop. Pkt. 10c; ¼ oz. 75c; oz. \$2.50; ¼ lb. \$7.00, postpaid.

**LARGE ALGIERS**—A valuable late sort, sure to head, of the best quality and very popular with market gardeners. Plants large, upright growth, the leaves protecting heads so that they will endure, uninjured, a frost that would ruin other sorts. One of the very best of the late varieties. Pkt. 5c; ¼ oz. 35c; oz. \$1.00; ¼ lb. \$3.50, postpaid.

**AUTUMN GIANT**—Heads white, large, compact and protected by foliage. Pkt. 5c; ¼ oz. 35c; oz. \$1.00; ¼ lb. \$3.50, postpaid.

## BROCCOLI or Winter Cauliflower

Broccoli is so nearly related to the late Cauliflower that the varieties are often listed under both heads—the principal difference being in the hardness and time of maturity, Broccoli not heading until late Winter or early Spring. Culture is same as for late Cauliflower, and good, rich, well-drained bottom land is best, or well-tilled, well-fertilized upland.

**ST. VALENTINE**—The finest of All Broccoli—This grand new strain introduced by us is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome white heads remain in good condition longer than other varieties. Pkt. 10c; oz. \$1.50, postpaid.

**EARLY LARGE WHITE FRENCH**—A valuable variety with large, white heads, firm and of good flavor. Pkt. 5c; oz. \$1.50, postpaid.

## CHERVIL

Can be planted any time in the early spring. The leaves should be kept cut, and if not allowed to run to seed, will keep green for a long time. Makes an excellent plant for garnishing.

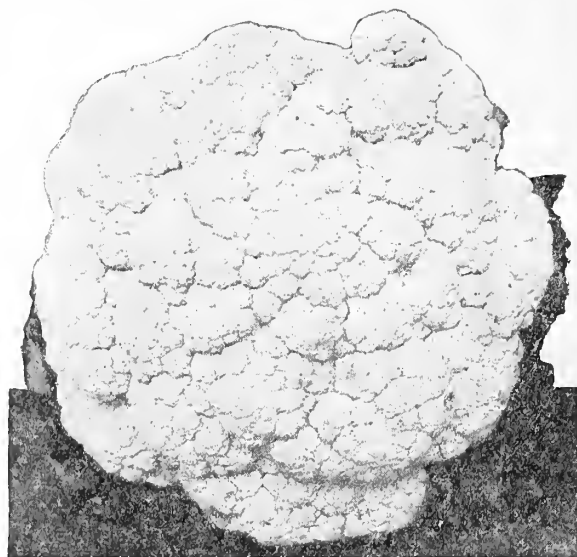
**CURLED**—Very finely curled, somewhat resembling parsley and used in same manner. Pkt. 5c; oz. 25c; ¼ lb. 70c; lb. \$2.00 postpaid.

## CHICORY

The roots, dug in the Fall, dried, cut in thin slices, and ground, are used largely as a substitute for coffee. Seed should be sown quite thinly in shallow drills early in the Spring. When well started, thin out to stand 2 or 3 inches apart in the row. Pkt. 5c; oz. 40c; ¼ lb. \$1.35; lb. \$4.00, postpaid.

## CHIVES

Chives belong to the onion family and the tops are used green for flavoring and garnishing. They grow in little clumps and can be supplied as plants any time in the early Spring. See Plant Department. Seed per pkg. 5c.



## COLLARDS

**SOUTHERN GEORGIA**—This variety is the old-time favorite. Stands all sorts of adverse conditions without injury. Very hardy. Pkt. 5c; oz. 20c; ¼ lb. 40c; lb. \$1.00, postpaid.

## CORN SALAD

**FETTICUS, or LAMB'S LETTUCE**—A refreshing salad, used extensively in Winter and Spring as a substitute for lettuce. It is often cooked like spinach. Sown in drills 1 foot apart, in the Spring or Fall. On the approach of cold weather cover over with straw or coarse litter. Pkt. 5c; oz. 30c; ¼ lb. \$1.00.

## CRESS

**CURLED, or PEPPER GRASS**—This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early. Pkt. 5c; oz. 40c; ¼ lb. \$1.10; lb. \$4.00.

**CRESS—(Water)**—Hardy perennial aquatic plant; sow seed along water's edge, preferably near running springs. 45 days. Pkt. 10c; ½ oz. 75c; oz. \$1.10; ¼ lb. \$3.00, postpaid.

# PLANTS IN SEASON

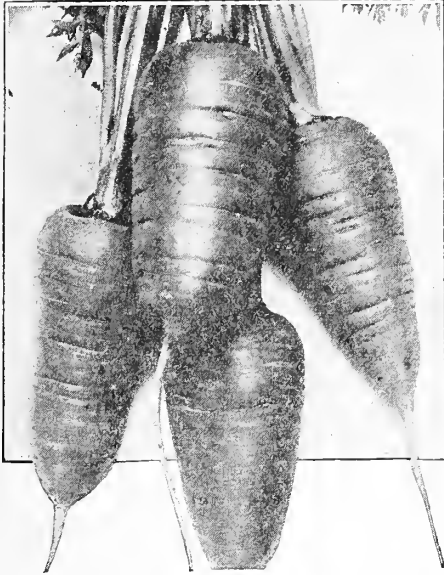


*See Page 52*

**Semesan Will Produce Better Truck and Garden Crops**

# CARROTS

**CULTURE**—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.



**S. S. CO.'S NEW CORELESS**—A splendid new carrot. Larger than other early varieties. Crisp, solid, of fine flavor and almost coreless, grows smooth and uniform, a true stump rooted type. The very best for canning or drying as it is nearly coreless and has no tap root to trim off and waste. Holds its color and cooks quickly. The ideal carrot for home gardens. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**OXHEART**—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**EARLY SCARLET HORN**—The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.



## EARLIEST SHORT HORN, OR FRENCH

—The earliest variety in cultivation, and best suited for forcing. Roots, reddish brown, globular and about two inches in diameter; should be used before full grown.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

## CHANTENAY—The Market Gardener's Favorite.

Tops, medium sized; necks, small; roots, tapering slightly but uniformly stump-rooted and smooth; color, deep orange red; flesh, very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

## IMPROVED LONG ORANGE—Popular

for farm use on deep, mellow soil. Our stock is an improvement obtained by years of careful selections of the best formed and deepest colored roots, which grow to a large size, some specimens averaging 12 inches in length. Enormous crops can be grown under fair culture; one of the best varieties for feeding stock. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 95c.

**DANVER'S HALF LONG**—Grown largely on account of its productiveness and adaptability to all classes of soil. Tops, medium sized, coarsely divided. The smooth, handsome roots are of medium length, tapering uniformly to a blunt point; flesh, sweet, crisp, tender; deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

# STOCK CARROTS

Carrots, aside from being one of our most useful and easily grown garden vegetables, are invaluable for stock feeding. They are greatly relished, promote health and put a sleek coat on cattle and horses, giving a well-kept appearance. Dairy and stockmen should grow them extensively. For their special use we recommend our "Yellow Giant."

**S. S. CO.'S YELLOW GIANT**, Specially Adapted to Moist, Heavy Soils—This new Carrot was originated at the Sydney, Australia, Experimental Station, and has proved itself to be the earliest and most productive stock carrot offered to date. It is a half long variety, with an immense broad shoulder. The Carrot penetrates less than one-half the depth into the ground, which saves about one-half the expense of harvesting the crop. The color is of bright yellow, and is perfection itself for giving the proper color to butter. Every dairyman who wants a big crop of carrots of the right quality and easy of culture should plant our Yellow Giant. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 85c.

**LARGE WHITE BELGIAN**—Extensively grown for stock feeding; very productive. Grows so much above the ground that the entire crop can be pulled by hand. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 70c.

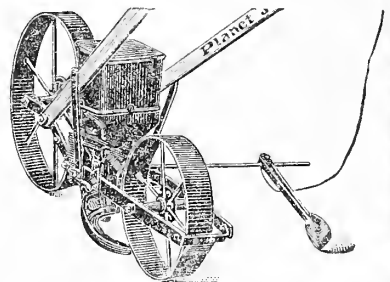
**IMPROVED SHORT WHITE—"MASTADON"**—Ranks as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly at the point; color, light green at the crown, white below; flesh, rich, white, solid, crisp and of excellent flavor. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 80c.

**YELLOW BELGIAN**—Large root; yellow flesh; good keeper for late feeding. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c.

## A Planet Jr. Seeder

Saves Its  
Cost in  
Seed

See Page  
61



## CELERY



**CULTURE**—Sow the seeds early, about February, in a hot-bed or cold frame. When three inches high, transplant, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart and about nine inches from plant to plant. Water if dry weather follows transplanting. During the next two months all the attention that is required is to keep down the weeds. Blanch by placing boards along the rows, or earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in Autumn. Never hoe up the earth when plants are wet. One ounce of seed produces about six thousand plants.

To Succeed With Celery you must keep your plants growing constantly while young, if you allow them to "stand still" they will run up to seed later. Always cultivate as soon after watering as the ground is dry enough to work well. Fertilize heavily in the Spring—and use nitrate later if needed.

**GOLDEN YELLOW SELF-BLANCHING**—This is no doubt the best celery for early Spring market use. Plants are of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier. Pkt. 5c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00.

**EASY BLANCHING**—The most valuable celery introduced in many years, with a remarkable natural tendency to blanch readily. Those who have never been successful in growing good celery can depend on this variety. Valuable both for early use and for its winter keeping qualities. Of very quick growth, thick stalks, very tender and brittle, and rich flavor. Its unusually long season for use appeal to the home gardener as well as the commercial grower. 155 days. Pkt. 5c; ½ oz. 30c; oz. 50c; ¼ lb. \$1.25; lb. \$4, postpaid.

**GOLDEN HEART, OR GOLDEN DWARF**—Solid, of fine, nutty flavor; excellent. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

**WHITE PLUME**—The Leading White Celery—A handsome crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white. It is the earliest celery known. Pkt. 5c; oz. 35c; ¼ lb. \$1.00; lb. \$3.00.

**WINTER QUEEN**—This is without doubt the most valuable variety of celery for Winter and Spring use ever introduced. Has double the amount of heart of any known celery. The plant has a fine appearance, of compact growth, and blanches to a beautiful cream-white. Ribbs perfectly solid, crisp and a delicious nutty flavor. Stored for Winter or Spring use, it is an excellent keeper and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor. Pkt. 5c; oz. 30c; ¼ lb. 75c; lb. \$2.50.

**GIANT PASCAL**—Largest variety grown; of fine, nutty flavor; very easily blanched. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

**CELERY SEED FOR FLAVORING**—Oz. 10c; ¼ lb. 20c; lb. 75c.

### LION BRAND CELERY TAPE

#### FAST BLUE

1000-YARD SPOOLS

HEAVY .....	\$5.00 PER SPOOL
LIGHT .....	\$4.00 PER SPOOL

## CELERY PLANTS

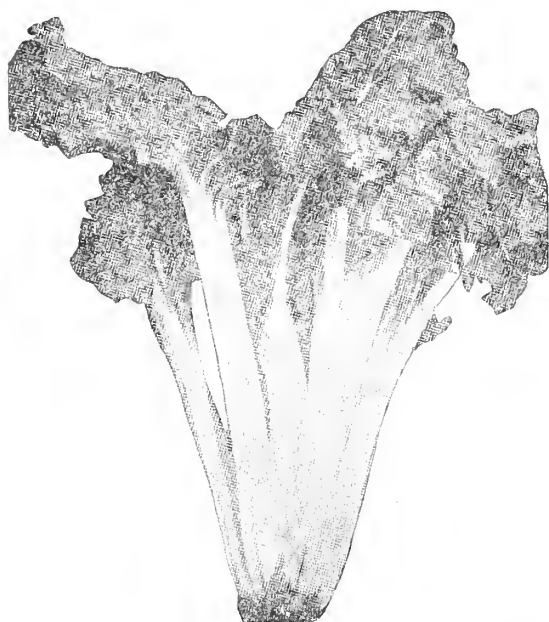
We have large healthy transplanted celery plants in the standard varieties for delivery in season. Any quantities. Write us for prices, or see Plant Department, page 52.

## CELERIAC

**TURNIP ROOTED CELERY**—Large Smooth Prague. Improved form with very few side roots. The largest and best variety. Pkt. 5c; oz. 30c; ¼ lb. \$1.00.

## SWISS CHARD

**NEW SAVOYED LEAF "LUCULLUS"**—An improved variety of "Swiss Chard," growing about two and a half feet high. The heavy stalks are over an inch thick and bare for more than a foot of their length. The leaves make the finest of "greens." By cutting back the leaves close to the ground tender shoots spring up quickly, these or the midrib are very delicious cooked as asparagus. Swiss Chard is hardy, easily grown and should be in every garden. It is one of the most delicious of all vegetables. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.



SWISS CHARD

# TEST YOUR SOIL WITH SOILTEX



# SWEET CORN

**CULTURE**—Sweet Corn should not be planted until the ground is warm, as the seed will rot in cold, damp soil, or if planted too deep. Late April is early enough for first plantings and for succession plant every two weeks through May and June. Cover the first planting very lightly, increasing the depth a little for the later plantings. For the Dwarf Early varieties, rows should be three feet apart; for later large varieties, four feet and the hills two or three feet in the rows.

Sweet or Sugar varieties are used both for table and stock feeding, some of the large later sorts being preferred for silos and fodder.



GOLDEN BANTAM SWEET CORN

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**Prices Sweet Corn, Postpaid**  
**Pkt. 15c; 1/2 lb. 20c; 1 lb. 30c; 10 lbs. \$2.50**

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## YELLOW VARIETIES

**GOLDEN EVERGREEN SWEET CORN**—A splendid yellow sweet corn noted for its excellent qualities. It is a cross between the Golden Bantam and the Stowells Evergreen but is much larger than the Golden Bantam and more productive, yet retains the tender skin of the Evergreen. Comes in just right in season to follow the first early sorts. The color is a rich golden yellow with ears 8 to 9 inches long, well filled from butt to tip with good juicy kernels of most delicious flavor. The stock we have is western grown and we feel confident will prove a most popular variety for this section.

**GOLDEN GIANT SWEET CORN**—A large yellow sweet corn, much larger than the Golden Bantam which it resembles somewhat. It has real merit and has proven an excellent sort for successive planting. This variety grows to the height of about 5 feet and usually bears two good eating ears. They are from 9 to 10 inches in length and well filled from tip to butt.

**GOLDEN WEST**—A selection from the original strain of Golden Bantam. Produces a larger ear, has a more vigorous growth, and by continued careful selection, improves yearly. "Golden West" is extremely hardy, can be planted earlier than other varieties, and, being of dwarf habit, can be planted closer than other sorts. It is the very best form of corn for market or home gardens, where earliness and quality are considered. The color is a rich, creamy yellow, deepening to golden as it matures.

**GOLDEN BANTAM**—The original yellow sweet corn. Does not grow quite as large an ear as our "Golden West," but has most of its good qualities; early, productive, sweet and rich.

## WHITE VARIETIES

**EARLY WHITE CORY—MAMMOTH**—The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine-shaped ears, which are fit for use before those of most other sorts. The ears are 12-rowed, very symmetrical and handsome. The grain is large, broad, very white and of remarkably good quality.

**EARLY PORTLAND MARKET**—One of the earliest large-eared varieties. Large, sweet, plump grains of purest white on well-filled ears; a good market variety. Ears large but stalk not considered a rank grower.

**OREGON EVERGREEN**—We offer "Oregon Evergreen" as the finest main crop Sweet Corn. The flavor and sweetness have not been excelled and the extreme whiteness of the large ears makes it very beautiful and valuable for canning. It is large and the stalks produce more ears than any other variety and have a very heavy husk over the grains, protecting them from insects and keeping the ear fresh a long time after cutting. "Oregon Evergreen" is a hardy, vigorous grower and is the ideal Corn for market gardeners.

**STOWELL'S EVERGREEN**—Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive and the best late variety for general use.

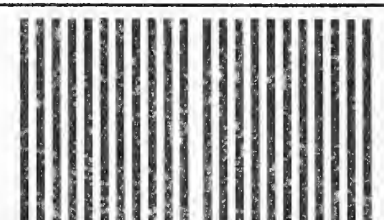
**EARLY MINNESOTA**—This old and deservedly popular variety is one of the best early sorts for the market and the private garden.

**COUNTRY GENTLEMAN**—The sugary sweetness and delicious flavor make this old-time favorite one of the most desirable varieties. The slender white irregular kernels are very long, the cob small making much more to the ear than other varieties.

**BLACK MEXICAN**—An old favorite still in good demand on account of its quality and sweetness. A good variety for home gardens.

**PEEP O'DAY—Ten Days Earlier Than Any Other—Sweet, Early, Productive**—For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short Western Summers.

**EARLY EVERGREEN**—The Best Second Early Sweet Corn—In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market 10 to 14 days earlier.



## SEMESAN

### Controls Root Diseases



## FIELD CORN

SIXTY-THREE PER CENT of the feeding value of a matured corn plant is in the ear. Corn to mature properly must be adapted to the section where grown, requiring several seasons of intelligent care and selection.

Our Western Grown Corn being thoroughly acclimated will give splendid satisfaction under the conditions and for the purposes recommended—we have large stocks and can supply any amount at very reasonable prices.

**CULTURE**—Thorough preparation of the soil is necessary for best results, methods of culture being determined by the different conditions of soil, climate, moisture and previous crops. The ideal soil is a deep warm one with a little sand, well drained and with sufficient humus to hold the moisture.

Deep plowing is always necessary for best results. An amount of stable manure and thorough tillage will help offset the cold nights. For best results when planted for grain, plant in hills 42 inches apart, allowing two stalks to the hill. For fodder or silo, three stalks, if the ground is rich.

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**Prices Field Corn, Postpaid, Pkt. 10c; 1 lb. 15c; 10 lbs. \$1.20; prices per 100 pounds on request.**

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**WASHINGTON GROWN YELLOW DENT**—Makes a quick growth with abundant foliage, maturing early and gives a good grain yield and will make silage of the highest food content. Especially adapted to the Spokane Valley and irrigated valleys of the Pacific Northwest.

**WHITE CAPPED YELLOW DENT**—Our seed should not be confused with the mixed late strains of this variety commonly offered. Our stocks have been produced from the popular certified Coleman early and Typey strain. It is one of the very earliest of the semi-dent group, maturing in from 85 to 95 days. It is non-suckering, carries ears at a convenient height for the harvesting and is a good yielder. Fast gaining over the other semi-dents in popularity, especially under slightly unfavorable conditions.

**NORTHWESTERN DENT**—This is a red corn with yellow dent or cap, and in high altitudes and the Northern sections where seasons are short will often mature a crop when other varieties fail. Owing to its frost and drought resistance, its extreme earliness and rapid growth make it valuable for late planting and for replanting. Ears are 7 to 10 inches, closely filled; grows 7 to 8 feet high. Splendid for silage.

**HARTMAN YELLOW DENT CORN**—"Hartman" is now considered a standard Dent Corn for grain east of the Cascade Mountains, and is also good for silo. Cob is small, ears medium to large, stalks light, allowing close planting.

**MINNESOTA KING (DENT)**—Smallest cob and largest grain. The ears are uniformly well filled out. Golden yellow, white capped and a good yielder, being a safe corn to plant east of the Cascades.

**EARLY CANADA**—(Flint)—An eight-rowed Yellow Flint Corn; early and very productive.

**PRIDE OF THE NORTH YELLOW DENT**—Pride of the North has long been the standard Corn recommended by the Agricultural Stations as the best Yellow Dent for Eastern Oregon, Washington and Idaho, and our seed has given splendid results wherever conditions have been at all favorable, maturing early and yielding heavily, the foliage being luxuriant and of medium height. "Pride of the North" is specially recommended for silo.

**WISCONSIN WHITE DENT**—"Wisconsin White Dent" is a large handsome White Dent, extremely early and matures perfectly.

**MINNESOTA NO. 13 YELLOW DENT**—The earliest of the early Yellow Dent corns and reported to be the heaviest yielding, producing splendid large ears, closely filled from end to end with bright yellow kernels. Has rather a thick cob and the shelled grains have a tendency to irregularity. "Minnesota No. 13" will average 7 feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn, and is especially recommended for ensilage east of the mountains. Will mature in ninety days under favorable conditions.

**CHAMPION WHITE PEARL**—A large, White Dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

**WHITE FLINT**—This valuable variety is specially adapted to Northwestern conditions. It is earlier than the well-known "Eight-Row Canada," and is to be preferred on account of its color, productiveness and very early ripening.

**KING PHILIP**—An early Red Flint Corn; well acclimated and well known.

**WHITE RICE**—Pop Corn. Best variety for popping corn. For Seed, per lb. 25c; for Popping, per lb. 15c.

***A Corn Planter will save your seed plants at the proper depth and make uniform rows. See page 62.***



### *A Mercuric Disinfectant*

**For General Agricultural Purposes  
and the Control of Seed, Plant and  
Soil Diseases**

As an economic crop, Corn is without a peer. Twenty to thirty tons of silage per acre are within the reach of every corn grower who will plant good seed, fertilize wisely and cultivate diligently. Land that is producing three to four tons of hay will produce double this amount of feed planted to corn. Progressive farmers are realizing these facts and the corn acreage is increasing rapidly from year to year.

Always remember that corn increases in food value and digestibility as it reaches the ripe stage—while other crops become more difficult of digestion and lose much of their food value as they ripen.

# CUCUMBERS



**CULTURE**—Cucumbers need a warm, rich soil, and should not be planted in open ground until the weather is settled, as otherwise they will not thrive. Plant in hills 4 feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vines' usefulness.

**IMPROVED LONG GREEN**—The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when matured they are best for Dill pickles—they will grow long and uniform in shape. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**IMPROVED WHITE SPINE**—One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome, light green, with a few white spines. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**SHORT GREEN, OR EARLY FRAME**—An excellent sort for both table use and pickling. Fruit straight, small at each end, bright green, with crisp, tender flesh. Comes into use a little later than the Early Cluster and keeps green a long time. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

**"THE DAVIS PERFECT" CUCUMBER**—The "Davis Perfect" is of perfect form, large size and of the finest color; is crisp, delicious and almost seedless. This fine variety is one of the most valuable varieties for home or market. The "Davis Perfect" is as handsome, grown outside, as any hothouse cucumber. Pkt. 5c, oz. 15c, ¼ lb. 35c; lb \$1.00.

**TELEGRAPH—FORCING**—A standard forcing variety, very popular with gardeners. Fruit 14 to 16 inches long, of very fine quality. A sure and heavy cropper. Pkt. 25c.

**JAPANESE CLIMBING**—A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor. Pkt. 5c, oz. 15c; ¼ lb. 35c.

**CHICAGO PICKLING CUCUMBER**—One of the most popular of the small early pickle varieties. It has square ends, smooth skin, is enormously productive and very disease resistant. The ideal type for very early uniform pickles. The fruits average 6x2¼ inches when fully developed. Pkt. 5c; oz. 20c; ¼ lb. 40c.

**SNOW'S PERFECTION CUCUMBER**—This variety is rather like the Chicago Pickle except that it is smaller. It is one of the most smooth, symmetrical pickle kinds grown and is highly recommended for its uniform early pickles. The fruits average 5x2½ inches in size. It is enormously productive and the square ended pickles are very attractive. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**BOSTON PICKLING OR GREEN PROLIFIC**—Color bright green and a great producer. The fruits average 4 to 5 inches in length when large enough for slicing, and are of excellent quality, but it is for producing medium sized pickles that this variety is so highly esteemed. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**EARLY RUSSIAN**—Earliest and hardiest. Very vigorous and productive. Fruit three to four inches long, thick, oval, pointed at each end, and covered with fine small spines. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb \$1.00.

**LEMON CUCUMBER**—This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of the harmful results that some experience from eating cucumbers. Pkt. 5c; oz. 20c; ¼ lb. 75c.

## STRETCHING THE GARDEN INTO THE WINTER

On the approach of freezing weather, prepare to save as many of your vegetables as possible for late Fall and Winter use. Before frost, can beans, corn, peas, and tomatoes. Pick large green tomatoes, peppers and egg-plants and wrap in paper to ripen in cellar. Cover lettuce with bog hay (this will often keep it for two or three weeks longer). Gather squash and melons and store in warm, dry place; don't bruise.

Before freezing, dig beets, carrots, parsnips, salsify, and turnips and store, in sand or soil, in the cellar. (Some of the parsnips and salsify can be left in the ground for spring use). Bury cabbage up-side-down in trench out-doors, or hang up by stalks in cellar. Store onions and potatoes in cold, but frost-proof, dry place. Write Secretary of Agriculture, Washington, D. C. for Farmers' Bulletin No. 934.

## Grow What You Eat—Eat What You Grow

## HINTS ON FERTILIZING THE GARDEN

Where no manure is used the fertilizer should be spread over the surface of the finely prepared seed bed at the rate of five pounds for a plot ten feet square, just before planting. The surface soil should then be thoroughly raked so as to mix the fertilizer evenly to a depth of two inches. Never place seed or transplanted plants in direct contact with fertilizer.

Thoroughly mixing of the fertilizer with the soil is essential to prevent injury of seed or roots. Tomatoes, Potatoes, Melons, and some other crops requiring rather long growing seasons, are materially benefited by a second application of fertilizer when half grown. Side dressings of this kind should be scattered between the rows at the rate of four ounces (one-half pint) to ten feet of row, when rows are spaced two feet apart; and pro rata for rows spaced a greater or lesser distance. To insure even distribution mix the fertilizer with fine, dry earth just before spreading.

**Forcing Growth**—Sodium Nitrate is a very strong stimulant for young growing plants. Vegetables grown for their leaves and stems, like lettuce, cabbage, celery, etc., can be improved by a light application or two of Sodium Nitrate in the early growing period. Nitrate of Soda is readily soluble. Use one pound to a ten-quart pail of water. Apply this in small amounts some little distance from the plant. Repeat in from twenty to thirty days.

## EGG PLANT

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

**BLACK BEAUTY**—An extra early, quick-growing, vigorous variety; handsome and very uniform. Color, deep blackish purple. Splendid market sort. Pkt. 5c, oz. 70c; ¼ lb. \$2.00.

**NEW YORK IMPROVED, LARGE PURPLE**—The leading market variety. Large, round, dark, excellent and the most productive. Pkt. 5c; oz. 70c; ¼ lb. \$2.00.

## ENDIVE

This is a hardy vegetable, cultivated principally for a Winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

**BROAD LEAVED BATAVIAN (Escarolle)**—Has broad, thick leaves, which form a large loose head. Pkt. 5c; oz. 15c; ¼ lb. 45c.

**WHITE CURLED**—A beautiful variety, with curled, mossy leaves for early use. Pkt. 5c; oz. 15c; ¼ lb. 45c.

**GREEN CURLED**—Standard sort for Fall and Winter. Pkt. 5c; oz. 15c; ¼ lb. 50c.

## GARLIC

**CULTURE**—Garlic is a profitable crop if your soil is right and proper methods of culture are employed. The sets are planted in the same manner as "Multiplier Onions," dividing the little clump, planting each bulblet thick end down, being careful not to bruise as they will rot if injured.

A medium loam soil containing a little sand and well drained is best and commercial fertilizer should be used. Deep and thorough preparation of the soil is necessary.

Plant in rows 14 inches apart—set 4 inches apart in the row. It requires 175 to 200 pounds to plant an acre. When approaching maturity, the tops die down and are not removed but used to braid the Garlic together for hanging up and convenience in handling. An acre should produce from two to four tons.

30c per pound, postpaid.

## HORSERADISH ROOTS

For prices and descriptions, refer to Plant Department. (Page 52.)



WHITE VIENNA KOHL-RABI

## HERB SEEDS

### All herbs 5c pkg.

**ANISE**—Seeds have useful medicinal properties; also used for Flavoring. 35c

**\*BALM**—Used for culinary purposes and for making Balm Tea. 50c

**BASIL**—Used for seasoning soups, having a decided flavor of cloves. 40c

**BORAGE**—Excellent for bees, flowers are also in request for garnishing. 20c

**\*CHIVE**—Has mild onion flavor; grows in grass-like clumps; much used for flavoring. 50c

**CORIANDER**—Seeds used in confections; leaves for soups and salads. Very aromatic. 35c

**CARAWAY**—For flavoring, the seeds being used extensively by bakers and confectioners. 25c

**DILL**—The flower heads and seeds are used in soups, stews and pickles; leaves have same flavor and can be used in like manner. 15c

**\*FENNEL**—For garnishing and fish sauce. 30c

**HYSSOP**—Used medicinally. 50c

**\*HOREHOUND**—Used medicinally as a cure for colds. 50c

**\*LAVENDER**—By distillation produces the well-known Lavender water, the flowers for perfuming wardrobes, etc. 40c

**MARJORAM**—The sweet aromatic leaves in either a green or dry state are used for flavoring. 40c

**\*ROSEMARY**—Infusions of the leaves are used in medicinal beverages. Produces an aromatic oil. 80c

**\*RUE**—Leaves are used in medicine, also for Roup in poultry. 70c

**\*SAGE**—The leaves and tender tops are used in stuffings and sauce; also in the beverage known as Sage Tea. 50c

**SAFFRON**—Used for flavoring. 35c

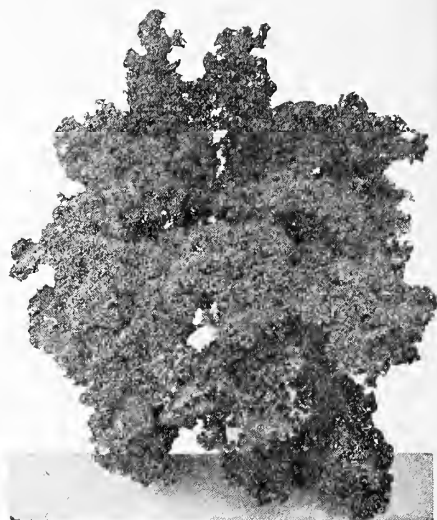
**SAVORY**—Summer—Used for flavoring. 30c

**SAVORY**—Winter. \$1.00

**THYME**—Broad leaved, used in soup, stuffing and sauce. 80c

**\*WORMWOOD**—Taken as a tonic in the form of tea. 70c

**TANSY**—Used medicinally, as tea and bitters. 60c



## GARDEN KALE

**HALF DWARF MOSS CURLED**—Medium sized leaves, nicely curled. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**EMERALD ISLE**—Finest in the World—This is really the handsomest Kale that has ever come under our notice; and is entirely distinct from other strains, very hardy, of medium height, and very vigorous, throwing out new shoots as fast as the leaves are used, and will furnish excellent greens all winter. The closely curled, handsome leaves are the most attractive and of fine flavor. Fine exhibition plant. Pkt. 5c; oz. 20c; ¼ lb. 50c.

**TALL GREEN CURLED SCOTCH**—Grows about two feet high; leaves dark green, curled and wrinkled; very hardy and is improved by a slight frost. Pkt. 5c; oz. 20c; ¼ lb. 50c.

**DWARF GREEN CURLED**—Leaves beautifully curled and bright green. Pkt. 5c; oz. 20c; ¼ lb. 50c.

## COW or THOUSAND HEAD KALE

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agriculture Colleges and Government Stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 feet apart in the row. Can be set as late as July. Write for full information on Planting and Feeding.

A quarter pound of seed will produce enough Kale plants for one acre. Postpaid, oz. 15c; ¼ lb. 50c; lb. \$1.50.

## KALE PLANTS

For Kale plants in season, refer to Plant Department. (See Page 52.)

## LEEK

The Leek belongs to the Onion family. Prized for soups. Cultivate same as Onions, but should be hilled up about the neck to blanch it.

**LARGE ROUEN or American Flag**—A large favorite American sort. Pkt. 5c; oz. 25c; ¼ lb. 75c.

## KOHL RABI

Hardy and of easy culture. Grown from plants the same as cabbage. The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. Kohl Rabi is far superior to cabbage or turnips in the delicacy of its flavor and is a splendid addition to every garden. It should be eaten before growth ceases.

**EARLY WHITE VIENNA**—Very early; bulb white; best table variety. Pkt. 5c; oz. 20c; ¼ lb. 65c.

**EARLY PURPLE VIENNA**—Same as above except in color, which is purple. Pkt. 5c; oz. 20c; ¼ lb. 65c.

# LETTUCE

**CULTURE**—Lettuce is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as Lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the Spring, and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the Fall or with cooler growing weather would develop perfectly. At a temperature of 40 degrees or lower Lettuce will not thrive. At 65 degrees and upward it has a tendency to run up and not head properly. For outside planting sow the seed in shallow drills from one to two ounces to the 100 yards. An ounce will produce 2,000 plants. Four pounds should plant an acre. Lettuce matures in forty to sixty days from time of planting.

## HEADING VARIETIES

**S. S. CO.'S CRISPETTE**—A beautiful Lettuce, perfect in quality. The large, curly leaves, which cover the outside of the solid heads are of a bright, light green. The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which curving strongly toward the center, makes it impossible for the leaves to open outward and expose the center, which will always be found crisp, tender, sweet and melting. It matters not whether grown to head in the early Spring or the hottest days of Summer, the leaves are always crisp and tender. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00.

**NEW YORK OR WONDERFUL**—The Best Head Lettuce for Market Growers—The mammoth head lettuce so largely grown for shipment to distant markets, arriving in splendid condition. Immense heads, solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head. Plants should be thinned to 12 to 14 inches. Pkt. 5c; oz. 30c; ¼ lb. 85c; lb. \$3.00.

**HANSON**—Improved Hard Heading Stock—One of the very best. Heads green outside and white inside, grows to a remarkable size, very solid, deliciously sweet, crisp and tender. It withstands the hot sun well. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75.

**BROWN DUTCH**—Forms a large, solid head; sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**BIG BOSTON**—Very large, smooth-leaved, solid-heading variety, grown more extensively throughout the East and South than any other. It is adapted to all climates, a good shipper. In flavor it probably excels other smooth-leaved varieties. An excellent all-year Lettuce. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.80.

**MAY KING**—Large growing, smooth leaved, richly flavored. Plant, light green, with round leaves, which form into a very solid, compact, round head; stands a long time without running to seed. Inner leaves blanch to a rich golden yellow. Exceedingly rich, tender and buttery. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75.

**PARIS WHITE COS**—Grows to a very large size. A solid Lettuce of the highest quality. Light green long, narrow, spoon-shaped leaves. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.60.

**EARLY PRIZE HEAD**—Standard sort; one of the best thin leaved, clustering varieties. The very large leaves are savoyed or crimped, bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. One of the best for the garden, but not good to ship long distances. Pkt. 5c; oz. 25c; ¼ lb. 80c; lb. \$3.00.

**IMPROVED DEACON**—A good Summer cabbage sort; very crisp, large and while of rather "forbidding" green color and thick texture outside, holds a "Heart of gold." Pkt. 5c; oz. 25c; lb. \$1.50.

**ICEBERG**—The outer leaves are light green in color and their habit of branching towards the center of head is a great aid to the blanching of heart. It is very firm, crisp and of good flavor, forming large, solid heads early in August. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00.

## LOOSE LEAF VARIETIES

**GRAND RAPIDS**—For Early Forcing—As a Lettuce, for greenhouse forcing, this variety undoubtedly stands at the head of the list. Of quick growth, and stands for some days after being fit to cut. The plant is upright and forms a loose head or cluster of large, light yellowish green leaves, slightly crimped and blistered, rather thin, good flavor, crisp and tender. It will stand shipping better than most curled sorts. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.85.

**SIMPSON'S EARLY CURLED**—A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.75.

**BLACK SEEDED SIMPSON**—Forms a close, compact mass, curly leaves of a yellowish green. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

## CHICKEN LETTUCE

**Just the Thing for Poultry Men**—This Lettuce yields an immense amount of chicken or rabbit feed. It does not form a head but send up stalks three or four feet high and when cut it immediately starts to grow again. The leaves can be pulled off the stem like kale. Loaded with leaves. Pkt. 5c; oz. 20c; ¼ lb. 75c; lb. \$2.40.

## MUSTARD

The varieties we offer make the finest of greens when used alone or if combined with cress furnish a delicious salad. Sow any time in the Spring, in rows, thin out as necessary.

**SOUTHERN GIANT CURLED**—A fine strain of the true curled leaf. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 95c.

**CHINESE MUSTARD**—Less pungent than other varieties. Is most delicious, thriving at the same season and under conditions that are favorable to spinach. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 95c.

**FORDHOOK CURLED**—Beautiful dark green, finely curled plumb-like leaves of distinctive flavor; superior to spinach as greens and fine for salads. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

**WHITE**—The green leaves are used as a salad when a few inches high. If shown in a warm place or in a hotbed will be ready to cut in a few days; sow frequently for a succession of crops. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 95c; postpaid.

## MUSHROOM SPAWN

With care and good spawn mushrooms can be made to pay handsomely, being grown successfully in a moist cellar, under green house bench or in sheds in a temperature of 50 to 60 degrees through the winter. Our free pamphlet gives general instructions.

**NEW AMERICAN SPORE CULTURES**—Produced from original spores by new French process—exclusively controlled by the American Spawn Co. The only method by which select varieties can be perpetuated and improved. Bricks weigh about 20 ounces and will plant 10 square feet. Price per brick, postpaid, 40c; 5 bricks \$1.75.

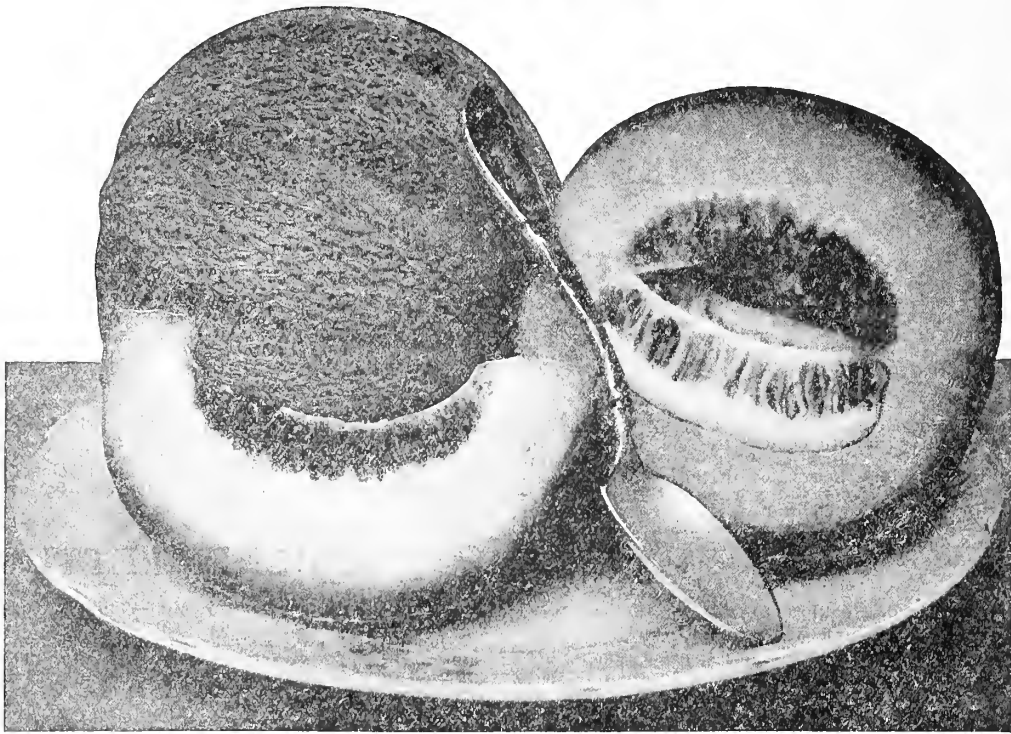


# TEST YOUR SOIL WITH SOILTEX

See Page 35



# MELONS



## MUSKMELONS

**CULTURE**—Plant in hills 4 to 6 feet apart, after frost is past and ground is warm; enrich with well-rotted manure; plant seeds just under the surface, not too deep. One ounce to 50 hills, 2 or 3 lbs. per acre. Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if rich and well drained.

**BURREL GEM**—The Perfect Melon for Market or Home Gardens—Has a tough, thin rind, well arched ribs, covered with closely interlaced gray netting; about  $4\frac{1}{2}$  in. diameter by 6 in. long, flesh of reddish orange, very thick, fine grained and spicy, seed held firmly in triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon quickly decays. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**ROCKY FORD—POLLOCK 10-25**—The latest improved popular Rocky Ford. It eliminates every defect of all other strains. Perfect in size, shape, netting, flavor, long keeping and good shipping qualities. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 65c; lb. \$1.85.

**ROCKY FORD**—Oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet, highly flavored, wonderfully uniform in shape and quality. A favorite with market gardeners. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**HOODOO or HEARTS OF GOLD**—Grows to a convenient size. Flesh thick and firm; deep salmon or orange color. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**OSAGE or MILLER'S CREAM**—One of the finest flavored melons in cultivation, and highly recommended. Flesh rich, salmon color, very sweet and melting in quality. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**LARGE YELLOW CANTALOUPE**—Early and productive; flesh salmon color, rich, sweet. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**SMALL GREEN NUTMEG**—Ripens early, flesh green, fine and sweet. Superior for early market, or family garden; a favorite for hotels and restaurants. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**BURRELL'S RUSTLESS ROCKY FORD CANTALOUPE**—This melon has light green flesh, which is very deep, rich and delicious, the quality being unsurpassed. It is solidly netted, thrifty, vigorous, rust resistant and a continuous bearer until frost. Ninety-five per cent of the seed crop were choice, standard size melons. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.

## WATERMELONS

**CULTURE**—Watermelons thrive best on light, well-drained soils, but give good results on any good rich garden soil properly drained and cultivated. Plant after weather is settled and ground warm. Hills 6 feet apart each way, well rotted manure worked into each hill. 1 oz. of seed will plant 30 hills, 2 to 3 lbs. per acre.

**"KING AND QUEEN"**—Winter Watermelon; also called **BLACK-SEEDED ICE CREAM**—Average weight, 10 lbs. Spherical in shape, ivory shell, pink center, seeds black. A most luscious, valuable winter melon. Very hardy, a good drought-resister. Ripens every melon in less than 120 days, and does not change its condition for ninety days if not bruised. Shell is very hard and melon ripens to within one-eighth of an in. of it. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.10.

**KLECKLEY'S SWEET or MONTE CRISTO**—Splendid for home use or near markets. Vine vigorous and productive; fruit medium size; oblong shape, dark green in two shades, indistinct stripes. Flesh a beautiful rich red; exceedingly sweet and tender. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.10.

**SWEET HEART**—Good shipper. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green; rind thin but firm; flesh bright red, firm, solid, but very tender and sweet. Fruit retains its good quality for a long time after ripening. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.10.

**TOM WATSON**—18 to 24 inches in length, 10 to 12 inches in diameter, thin, dark green rind, deep red flesh, crisp and sugary, with a lusciousness and distinctive flavor that makes it one of the finest melons ever produced; hardy, early, stands handling and long shipment. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**PEERLESS**—White Seeded—A grand favorite and standard variety. Has beautiful crimson core, always fine grained; cannot be surpassed in flavor; very prolific. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**HALBERT HONEY WATERMELON**—This superb melon is a great improvement over the well-known Kleckley Sweets, as it fully equals it in delicious flavor and crispness, is more uniform in outline, darker in color, more vigorous and productive, and will ripen melons perfectly in the cooler sections where other varieties fail. The average length is eighteen to twenty inches, both ends being blunt and fully rounded out. The rich, dark glossy green, the thin rind and the bright crimson center make the new Halbert Honey the most attractive Watermelon. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

# ONIONS—OKRA—PARSLEY



**WHITE "BUNCHING" ONION**—Especially useful to market gardeners for producing an attractive "green onion." The young stalks are crisp and mild, attaining a good size before the bulb forms. Pkt. 5c; oz. 35c; ¼ lb. 85c; lb. \$2.80.

**PRIZETAKER**—The Genuine, The Handsomest Yellow Globe Onion—Fine flavor, enormous size, perfect globe shape, bright straw-colored skin, neck very small and always ripens up hard. Pkt. 5c; oz. 35c; ¼ lb. \$1.00; lb. \$3.25.

**WHITE PORTUGAL**—One of the standard American onions. The true type is of medium size, flat, pure white and the flesh fine-grained, firm and hard. It is late ripening and a good keeper. Used exclusively by large set growers in certain Eastern sections and by most pickle growers, for pickling onions. Used almost exclusively for White Silverskin as well. Pkt. 5c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00.

**EARLY WHITE BARLETTA or WHITE QUEEN**—An exceedingly early variety growing about 1½ inches in diameter and ¾ of an inch thick. A most excellent sort of bunching and pickling. 75 days. Pkt. 5c; oz. 30c; ¼ lb. 90c; lb. \$3.00.

**LARGE RED WETHERSFIELD**—A standard variety; one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping. Pkt. 5c oz. 30c; ¼ lb. \$1.00; lb. \$3.20.

**S. S. CO.'S OREGON YELLOW DANVERS**, developed in Oregon and the standard market variety in this section. The bulbs are uniformly large, half globe form, small neck, the thin brownish-yellow skin firm, fine grained flesh, very white and mild. Produce the largest crops, ripen up hard and early, the best keepers and bring the highest price in the Coast markets. As a table or market onion has no rival. The seed we offer is produced under the most approved methods of culture and no grower can afford to plant inferior seed when we can supply Oregon Yellow Danvers. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.25.

We are growers of Onion Seeds and Sets, and for years have been specializing on varieties that attain their greatest perfection in the Northwest and believe in our "OREGON YELLOW DANVERS," and recommend it to all commercial growers.

**CULTURE**—For the best results in Onion growing, soil should be deep and rich, bottom land of rather loose texture being preferred—(beaverdam soil is best.)

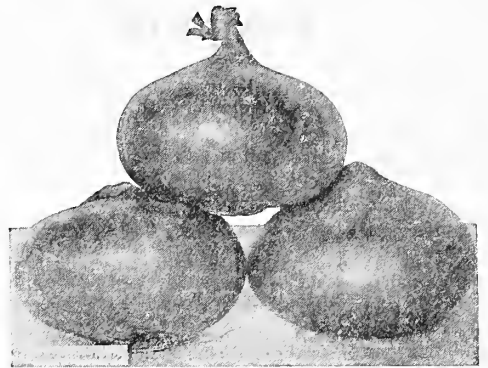
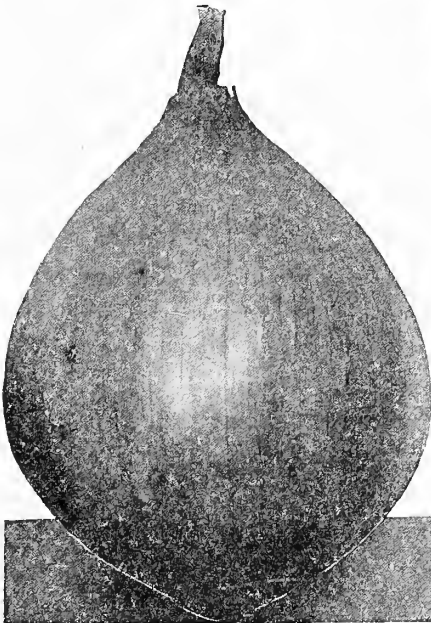
Sow 2½ or 3 pounds of seed per acre, as early in season as ground can be put into proper condition, using good fertilizer such as our special Onion Fertilizer, or manure supplemented with Bone Meal, Muriate of Potash, and in some cases Nitrate of Soda, the latter often being used after the plants are up, while the other fertilizers are worked into the soil before the seed is sown. Hardwood ashes may take the place of the Muriate of Potash.

**YELLOW GLOBE DANVERS**—The type most widely known and used as a main crop variety. A handsome, round or globe-shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, firm, and the best of keepers. Ripens early. Pkt. 5c; oz. 30c; ¼ lb. 90c; lb. \$3.00.

**YELLOW FLAT DANVERS**—The Yellow Flat Danvers has all the good points of the Globe but is a true flat type, a good cropper, matures quickly and is a good keeper. Is fine grained, mild and white. Pkt. 5c; oz. 30c; ¼ lb. 90c; lb. \$2.90.

**SOUTHPORT WHITE GLOBE**—Large, silvery white, good keeper. A general favorite. Pkt. 5c; oz. 50c; ¼ lb. \$1.75; lb. \$6.00.

**AUSTRALIAN BROWN**—Resembles the Oregon "Yellow Danvers" in general appearance, but has a clear amber-brown skin that attracts buyers. Early, ripens uniformly, will keep in good condition longer than any other onion. For late sowing Australian Brown heads the list. Pkt. 5c; oz. 30c; ¼ lb. 90c; lb. \$3.00.



## Onion Sets

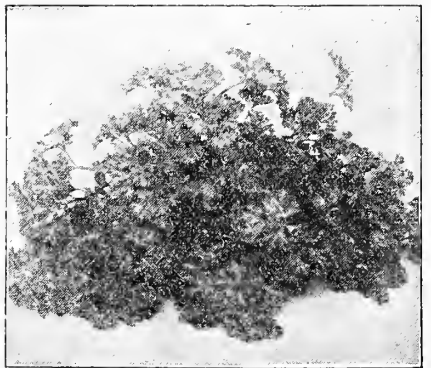
**BOTTOM ONION SETS**—Small onions grown from seed that has been sown too thickly to attain a large size. The small onions about ½ inch in diameter) planted out are ready in a short time to pull as green onions for the table or bunched for market. Per lb. 20c. Write for quantity prices.

**SHALLOTS**—Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs. Light brown skin; mild, white flesh. Per lb. 30c.

## OKRA or Gumbo

**IMPROVED DWARF GREEN**—Very early, with long, green slender pods. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.60.

**WHITE VELVET**—Large pods, smooth or very slightly ribbed, remain tender a long time. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.60.



## PARSLEY

One ounce to 150 feet of drill.

Sow in drills one foot apart, in rich, mellow soil; soak the seed 12 hours before sowing, which should be done in early spring, as they are very slow to germinate. When one or two inches high thin out the plants to six inches apart in the rows. Used as a garnish for table, also in soups.

**CHAMPION MOSS CURLED**—A compact growing, finely cut and much curled variety of a bright green color. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**PLAIN**—For flavoring and garnishing. The green leaves are used or they may be dried crisp, rubbed to a powder and kept in bottles until needed. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 70c.

**EXTRA DOUBLE CURLED**—The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**TURNIP-ROOTED or HAMBURG**—The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.30.

# PARSNIPS—PEPPERS—PUMPKINS

## PUMPKIN

**CULTURE**—Pumpkins will grow on any good farm land, but their size and quality will depend on the culture and fertility of the soil. Plant early in May, in hills six to eight feet apart. One pound of seed will plant about 300 hills. Care should be taken to keep the different varieties well apart, also away from other vining plants, as they mix and deteriorate very rapidly.

**WINTER LUXURY**—The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. Pkt. 5c; oz. 20c; ¼ lb. 40c; lb. \$1.20.

**SWEET OR SUGAR**—A handsome and productive small pumpkin; skin, orange; flesh, deep yellow, fine grained, very sweet, the famous "New England Pie Pumpkin." Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**LARGE YELLOW OR CONNECTICUT FIELD**—Large, round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**GIANT OF ALL**—"King of Mammoths"—This colossal pumpkin is almost a globe in shape. Skin a rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.80.

**MAMMOTH TOURS**—A productive French variety; grows to an enormous size. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.20.



## PARSNIP

Parsnips sliced and fried are a nutritious and always acceptable side dish at many a winter dinner; as frequent in use as the dependable old Hubbard Squash.

**CULTURE**—One ounce will sow 200 feet of drill; five pounds for one acre. Sow as early in the spring as the weather will permit, in drills 15 inches apart, covering half an inch deep. When well up thin out to five or six inches apart in the rows. Unlike carrots they are improved by frost and it is usual to take up in fall only a certain quantity for winter use, leav-

ing the rest in the ground until spring, to be dug as required. If cellar-stored, pack in boxes filled with slightly moist soil.

**HOLLOW CROWN OR LONG SMOOTH**—(85 days). Roots oblong, ending somewhat abruptly with a tap root; best variety for general use. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**EARLY HALF LONG**—Ready in ninety days. Medium sized, easily dug, has a fine rich flavor—good for home gardens. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

## PEPPERS

**CULTURE**—Sow early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

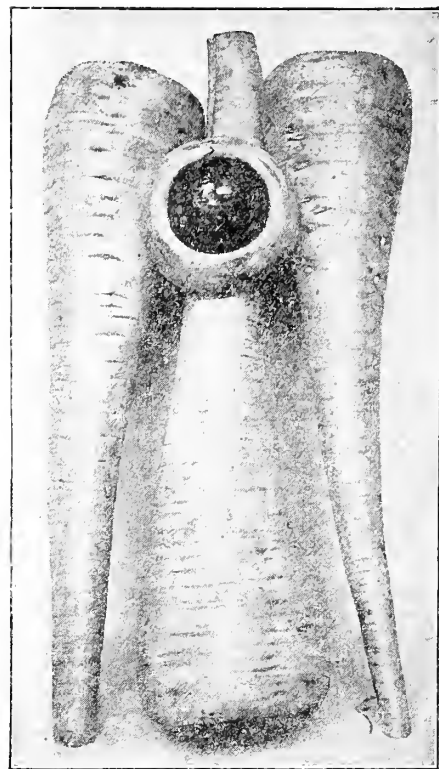
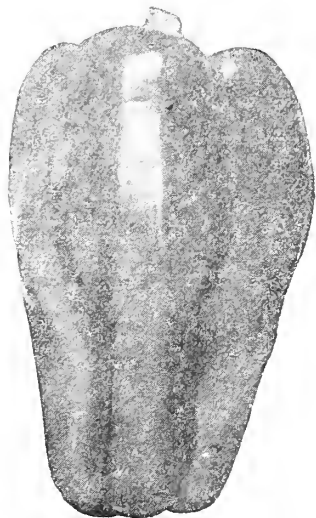
**NEW PERFECTION PEPPER**—Unequaled for quality and sweetness, large, smooth, flesh 3 times as thick as in other varieties. Skin can be slipped off by heating or boiling a little, or pare like an apple. Growth is vigorous. Yield is heavy and continuous, bearing until frost. Pkt. 5c; oz. 60c.

**RUBY KING**—Very large, sweet and mild; bright scarlet. Pkt. 5c; oz. 50c.

**LARGE BELL OR BULL NOSE**—Large, mild, thick, fleshed variety. One of the best for stuffed pickles. Pkt. 5c; oz. 40c.

**CAYENNE**—Pods long; bright red; very pungent and used with pickles when green. Pkt. 5c; oz. 60c.

**CHILI**—Pods small and pointed; brilliant scarlet; very pungent when ripe. Pkt. 5c; oz. 60c.

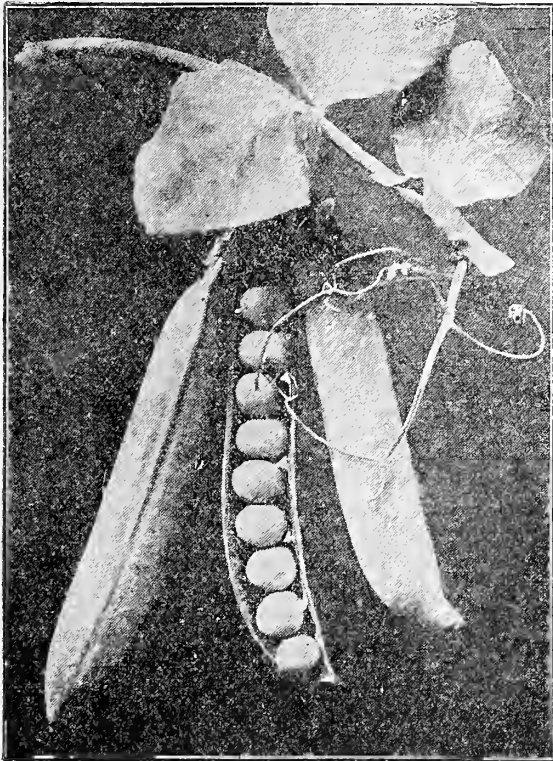


**TEST YOUR SOIL  
WITH SOILTEX**  
See Page 35



## GARDEN PEAS

Prices on all Peas on this page postpaid Pkt. 15c; 1/2 lb. 20c; 1 lb. 35c; 10 lbs. \$3.00



## Smooth Variety

**ALASKA or EARLIEST OF ALL**—A smooth, blue pea, of even vigorous growth and extra early maturity. Vines 2 to 3 feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for Fall or early Spring planting.

## Edible Podded Peas

**MELTING SUGAR**—Pods grow 4 to 5 inches long, and are very broad, quite brittle and with no stringiness. Very sweet. Height, 5 feet.

## MAIN CROP VARIETIES

Great Favorites with our Market Gardeners.

**GRADUS or PROSPERITY**—This early wrinkled pea bears pods of large size and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth vigorous and healthy; vines 2 1/2 feet in height; very prolific. The quality and flavor are delicious and the peas remain tender and sweet for a long time.

**TELEPHONE—TALL**—Our Western grown selection of this popular favorite and standard market variety is immensely productive, the extra large pods being filled with peas of the finest quality, the luscious sugary flavor not being excelled by any other variety. A strong, rapid grower, averaging 4 to 5 feet.

**THOMAS LAXTON**—A very early variety of great merit. Vines are vigorous, of medium height—about three feet—similar to Gradus, but darker in color, harder and more productive. Pods are large, about four inches, with square ends, uniformly well filled and of unexcelled quality. One of the very best sorts for market and home garden.

**IMPROVED STRATAGEM**—One of the best of the large podded peas; the pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky, with very broad, light green leaves and bearing an abundance of large handsome pods.

## EARLY AND DWARF VARIETIES

Garden peas are one of the most important crops, and we have spared no effort to select and improve the best strains of the most profitable and satisfactory varieties. These selected strains, grown under our direct supervision for many years, will give you the biggest yield and the handsomest, sweetest, best flavored Peas for early market or home garden. The varieties offered have proved by growing tests to be the best of their kind and class.

**EARLY DWARF GRADUS**—Slightly earlier and more dwarf than the regular GRADUS. Vines moderately stout, pods medium green, rather large and well filled with dark green peas of exceptional quality.

**LAXTONIAN**—An early, dwarf, robust, large podded pea of superior excellence; growth averaging 16 inches. The large pods are well filled, holding eight to ten peas. "Laxtonian" is so highly recommended that you should give it a trial. Crop is short this year.

**MARVELOUS**—A most handsome wrinkled pea with dark green blunt pods, almost as large as Thomas Laxton, well filled and of superior quality. Vines are vigorous and productive, resembling Laxtonian in habit of growth. Very prolific and a most desirable sort for home and market garden. Season the same as Little Marvel.

**LITTLE MARVEL**—Splendid Dwarf Pea for Home or Market—The dwarf, bushy vines, averaging 15 inches are loaded with firm square-ended pods 2 1/2 to 3 inches long, tightly filled with plump, luscious, deep green peas. "Little Marvel" is as early as "American Wonder," fully equals the superb quality of "Nott's Excelsior," and far outyields these two popular sorts.

**AMERICAN WONDER**—One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with well-filled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas. Height 10 to 12 inches.

**PREMIUM GEM**—Our select strain of this splendid variety is one of the earliest and best of the dwarf garden Peas. The vigorous, luxuriant vines average about 15 inches in height and are heavily loaded with well filled pods of rich, fine flavored sugary peas. Continues in bearing for a longer period than most varieties in this class. A splendid home garden pea for successive planting and for canning.

**BLUE BANTAM**—Extremely early, "Blue Bantam" excels in the size of pods and quality of the sweet large dark green Peas with which they are filled, and is said to surpass all extra early dwarf varieties in yield. Very dwarf and hardy.

**RICHARD SEDDON**—A dwarf English Pea of the finest quality; very early. Has large shapely pods well filled. Is sweet and delicious. A hardy, prolific Pea of the greatest merit. As early as American Wonder and far more prolific. Try it.

## PEANUTS

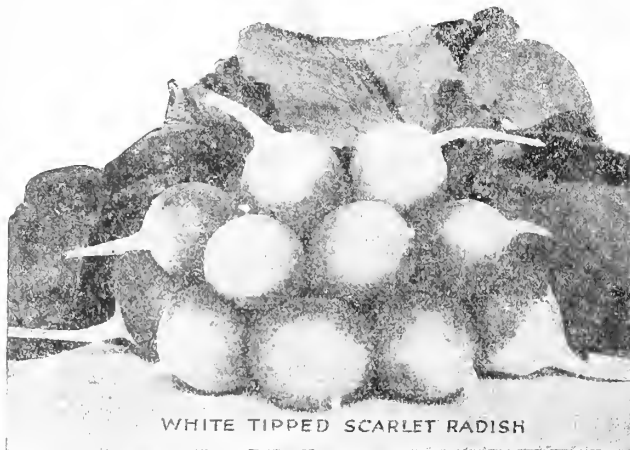
Peanuts are an American institution, their delectable aromas and consumption an inevitable feature at all American outdoor sports. It may be a matter of surprise to most northern gardeners that it is not only practical but profitable to raise your own, as well as help supply your local market.

**CULTURE**—Peanuts require light rich soil well limed. Plant in the spring as soon as the ground has become warm, in rows 30 to 36 inches apart, placing the seed 6 to 10 inches apart in the row. It is not necessary to remove the hull when planting. Keep well hoed. When matured pull and hang up to dry.

**VALENCIA**—A very desirable and productive Spanish bush type. Mild, sweet flavored. Pkt. 10c; 1/2 lb. 25c; 1 lb. 40c; 2 lbs. 75c.

# RADISHES

**CULTURE**—To secure Radishes with crisp, tender flesh, grow them quickly in rich, loose soil, and gather before reaching full size. Our Radish Seed is strictly of the finest grade, being grown from carefully selected roots. Frequent plantings should be made for succession so that a supply of fresh, tender Radishes in the finest condition may be had at all times.



WHITE TIPPED SCARLET RADISH

**WHITE ICICLE**—This superb Radish is the finest and longest of the very early pure white varieties. Planted in the Spring, is ready for use in twenty to twenty-five days; their long, slender form and pure paper-white skin are most attractive when bunched for market. This Radish is not only crisp and tender when young but also retains these qualities until the roots attain large size; is excellently adapted for forcing purposes or successive sowing in open ground and gives a continuous supply of tender, crisp Radishes for the table or market throughout the season. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**FRENCH BREAKFAST or HALF LONG**—Medium size, quick growth, crisp and tender; lower end and tap-root white. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**IMPROVED CHARTIER**—Roots, long, tapering and attaining a very large size. Of rapid growth; remains crisp and tender until fully grown. Color, scarlet above shading into white at the tip. Flesh white and mild flavored. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**EARLY SCARLET TURNIP**—White Tipped—A beautiful variety; deep scarlet with white tip. Very early. Has a small top, and may be planted closely. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**EARLY CRIMSON GIANT**—The Largest Early Scarlet Turnip-Shaped Radish. A new, early Radish, double the size of any of the turnip-shaped type, but, notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The shape of the bulb varies from round to almost oval, but the bright, deep crimson color of the skin remains quite constant. Excellent for both forcing and open ground. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**EARLY SCARLET TURNIP**—A small, round, red turnip-shaped Radish, with small top and of very quick growth; very early; rich color and crisp, tender flesh. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

**CINCINNATI MARKET**—A superior strain of long scarlet, an early, rapid grower of a deep crimson color so clear and brittle as to be almost transparent. Keeps fresh and stands shipment—a fine market radish. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c.

**EARLY SCARLET GLOBE**—A small scarlet globe-shaped Radish, with small top and of very quick growth, very early; rich color and crisp, tender flesh. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**EARLY SNOWBALL**—A grand improvement on the White Box or White Turnip Radish which has been so popular for several years. It is handsome in shape, very early, and has but few leaves, is of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. A good sort for forcing. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c.

**LONG BRIGHTEST SCARLET, WHITE TIPPED**—This is the brightest and handsomest colored Scarlet Radish known. The lower third of the root is snow white; very attractive. Extra early and flesh very tender. Valuable for forcing or open ground. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**LADY FINGER or WHITE VIENNA**—Of rapid growth and beautiful shape. Skin and flesh snow-white; very juicy, firm, crisp and tender; the finest of Long White Radishes. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**CHINA ROSE WINTER**—One of the best Fall and Winter varieties; a favorite with market gardeners, bright rose color; flesh white, firm and of superior quality. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**EARLY LONG SCARLET, SHORT TOP**—This bright scarlet, small topped sort is uniformly straight, smooth, brittle and crisp, and is a standard and excellent sort for private gardens or market use. Pkt. 5c; oz. 15c; ¼ lb. 20c; lb. 55c.

# SQUASH

**CULTURE**—Plants are tender and sensitive to cold, and planting must be delayed until settled warm weather. The principles of culture are the same as for cucumbers and melons, but squash is less particular as to soil. Plant Summer varieties 4 to 6 feet apart each way and the Winter sorts 8 to 10 feet. Three plants sufficient to a hill.

## WINTER VARIETIES

**IMPROVED HUBBARD**—The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Long keeper. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**MAMMOTH CHILI**—The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**GOLDEN HUBBARD**—The same in size, shape and quality as the well known Hubbard Squash, except that it is bright red or golden color, and somewhat earlier. Good keeper. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**BOSTON MARROW**—Skin yellowish, very thin; flesh dry and fine grained; of unsurpassed flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**SIBLEY or PIKE'S PEAK**—Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained, with a delicate flavor. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

## BANANA SQUASH

**BANANA SQUASH**—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. Resists heat of the sun better than the Hubbard and because of its excellent flavor and splendid keeping qualities, remaining in good condition from one season to another, is superseding that variety in many localities. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.70.

## SUMMER VARIETIES

**WHITE BUSH**—The best Summer sort for the home garden or market; very productive and of good size. Pkt. 5c; oz. 20c; ¼ lb. 45c; lb. \$1.25.

**EARLY SUMMER CROOKNECK**—Early, prolific, solid curved neck; skin yellow, thin, hard and warty; flesh tender and of good quality. Earlier and larger than the ordinary Crookneck. Pkt. 5c; oz. 20c; ¼ lb. 45c; lb. \$1.25.

**TABLE QUEEN**—Small very dark green acorn-shaped squash of very finest quality. Makes excellent pies, can be cooked whole when young and bakes splendidly when matured. Grows 6 to 8 inches in length and 3 to 4 inches in diameter. The small size makes it ideal for individual service when baked. Matures early, is a good keeper and extremely prolific. Also known as Des Moines, Acorn, and Danish Squash. Pkt. 5c; oz. 25c; ¼ lb. 75c.

# SALSIFY—SPINACH—TURNIPS

## SALSIFY or VEGETABLE OYSTER

**CULTURE**—Sow the seed early in spring, in drills one foot apart and one inch deep, thinning out the young plants to four inches. The roots will be ready for use in October, when a supply should be taken up and stored in moist sand in a cool room. Those remaining will suffer no injury by being left in the ground until spring. One ounce to 100 feet. Ten to twelve pounds are required for one acre.

**MAMMOTH SANDWICH ISLAND (95 days).** The largest, smoothest and the very best in every way of all salsify. Pure white, very tender and of excellent quality. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

## SPINACH

**CULTURE**—Select very rich, well drained soil, sow in drills one foot apart and one inch deep; or it may be sown broadcast at rate of thirty pounds per acre. For spring and summer use make the first sowing early in spring and continue at intervals for two or three weeks, until the middle of June; sow in August and September for early spring use, and protect with a covering of straw during severe winter.

**IMPROVED THICK LEAVED**—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners. Pkt. 5c; ¼ lb. 25c; lb. 75c.

**KING OF DENMARK**—The most valuable of new introductions of early sorts, remaining in good condition from one to two weeks after other varieties have gone to seed. Plants are of rapid growth, leaves thick and stand well after cutting. Pkt. 5c; ¼ lb. 35c; lb. 90c.

**NEW ZEALAND SPINACH**—(55 days) (*Tetragonia Expansa*)—Strong growing summer variety. The young branches and leaves can be gathered at any time. Sow thinly in drills 15 inches apart after danger of frost is past. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**SAVOY LEAVED**—Bloomsdale—Very early; of upright growth; leaves pointed. Plant in the Autumn for Spring use; grows quickly. Pkt. 5c; ¼ lb. 25c; lb. 75c.

**PRICKLY WINTER**—Hardest variety; must be sown in the Fall; seed prickly; leaves long, pointed, thick and succulent. Pkt. 5c; ¼ lb. 25c; lb. 75c.

**LONG STANDING**—An improved variety for general use; large, fleshy savoyed leaves remain in an edible condition over a long period, being very slow to go to seed. Pkt. 5c; ¼ lb. 25c; lb. 75c.

**VICTORIA**—Fine texture, of deepest green color, heavily crimped, thick, fleshy leaves, good quality, and "stands" for a long time before shooting to seed. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 60c.

## RUTA BAGA or SWEDE TURNIP

For feeding stock in Fall and Winter there is nothing superior to Turnips or Ruta Bagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We can not too earnestly recommend farmers to increase their sowings largely, for the crop will prove profitable.

**IMPROVED AMERICAN PURPLE TOP**—The leading standard variety, being very distinct in type, attaining a wonderfully large size; immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**SKIRVING'S**—Enormously productive; flesh yellow, solid and sweet. One of the best for field culture. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

## EARLY GARDEN TURNIPS

**EARLY PURPLE TOP MILAN**—This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved; bulb a deep purple above, white underneath; flesh white, firm and delicate. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.20.

**EARLY WHITE MILAN**—Same as Purple Top Milan, but pure white, sweet and tender; best early market variety. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.20.

**PURPLE TOP STRAP LEAF**—A leading white-fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm but tender, and of a superior rich buttery flavor. A good keeper. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**EARLY WHITE FLAT DUTCH**—One of the very best and most universally grown. Small, erect top, round, flat; flesh white, firm, but very tender and sweet. Of quick growth, it is soon ready for the table and keeps well. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**EARLY SNOWBALL**—Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid, fine flavor. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**GOLDEN BALL**—Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used by market gardeners. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

## MAIN CROP TURNIPS

**COWHORN**—Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**POMERANIAN WHITE GLOBE**—One of the most productive kinds, and in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**PURPLE TOP WHITE GLOBE**—A large, globe-shaped variety; purple above the ground. It is handsome and of excellent quality; recommended both for family garden and field crop. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**LARGE WHITE NORFOLK**—A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all Winter. Yields very large crop. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**WHITE EGG**—Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being a very choice kind for table use; of excellent flavor; sweet and mild. Pulls clean from the ground, thin skin. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**YELLOW ABERDEEN**—Round, medium size; light yellow. Produces a large crop; is hardy and keeps well; flesh very firm but tender and sweet. A great favorite with dairymen. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.

**DANISH PURPLE TOP**—Bangholm Pajbjerg—This variety was awarded a first class certificate by the Danish government for heaviest yield, having given 49 tons per acre. In shape is a little more elongated than the Globe types. This variety is recommended as the best of its class. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

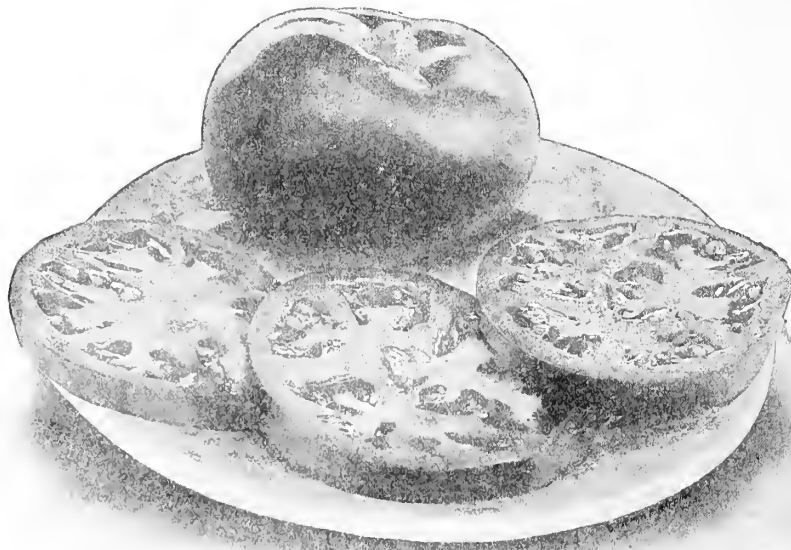
**MONARCH or TANKARD**—This is a yellow flesh sort, having very large, tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**WHITE SWEET RUSSIAN**—This variety is most excellent, either for table or stock. It grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

# TOMATOES

**Culture**—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3,000 to 4,000 plants.

If blight appears use "Bordeaux," but it is better to use as a preventative before blight strikes the plant, and as a control measure for flea beetles, spraying the under side of foliage.



The newer types of hardy, prolific Tomatoes are better adapted to the cool Coast climate than the older sorts; splendid crops are now being grown where hertofore it was thought Tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

**"BURBANK" TOMATO**—The originator describes it as the earliest, smoothest, most productive and best early Tomato, color bright crimson, thick, smooth and firm with few seeds. Unusually heavy and of the finest quality. Keeps well; a good shipper; a prolific, continuous bearer, has the unusual and remarkable feature of being easily peeled, the skin slipping readily from the rich, firm flesh. Resistant to wilt and other diseases. Pkt. 5c; oz. 65c; ¼ lb. \$2.50.

**JOHN BAER**—Is the result of fifteen generations of breeding; it produces perfect, solid, high crown, brilliant red Tomatoes. They ripen ten days before Earliana, bearing 50 to 100 fruits per plant. The flavor is deliciously sweet. The plant will stand plenty of fertilizer without going to vine. Keeps well; a good shipper; a prolific, continuous bearer, and has the remarkable feature of being easily peeled, the skin slipping readily from the rich, firm flesh. Resistant to wilt and other diseases. Pkt. 5c; oz. 60c; ¼ lb. \$2.00.

**STONE**—Popular with canners, growers and market gardeners. Solidity and carrying qualities are remarkable. Color a desirable red. Shape perfectly smooth and thicker from stem to blossom end than most varieties. Very handsome and salable. Pkt. 5c; oz. 35c; ¼ lb. \$1.00.

**COMET—FORCING**—The very best forcing variety and a general favorite with greenhouse growers. Color is a beautiful scarlet; fruits are of good size, very smooth and uniform. Pkt. 5c; oz. 50c.

**LIVINGSTON GLOBE**—One of the best Early Tomatoes, Hardy and Blight Resistant—Fruits large, even size; very early; ripen through; always smooth, firm, round, solid meat, few seeds. Color beautiful glossy, rose-tinted purple; very productive. Is also an excellent forcing variety. Pkt. 5c; oz. 45c; ¼ lb. \$1.50.

**DWARF CHAMPION**—Dwarf, upright growth; smooth purple fruit. Pkt. 5c; oz. 60c; ¼ lb. \$2.00.

**CHALK'S EARLY JEWEL**—Large, bright red, smooth, round fruits, colored evenly up to the stem; solid, almost seedless, fine flavor. Vines are vigorous, not subject to blight, and yield fully equal to or better than Earliana. We recommend as an early Tomato for either market or home gardens; it has given us satisfaction under the varying conditions of soil and climate in the Northwest. Pkt. 5c; oz. 60c; ¼ lb. \$2.00.

**BONNY BEST**—Has given splendid results wherever tried and being early, hardy, very productive, recommended for outside planting wherever Tomatoes can be grown. A good forcing variety. Fruit smooth, round, slightly flattened, solid, a bright scarlet. Quality excellent. Pkt. 5c; oz. 45c; ¼ lb. \$1.85.

**SPARK'S EARLIANA**—One of the Earliest Tomatoes—Large, uniform size and beautiful red color. Ripens thoroughly all over, the stem end coloring up perfectly. Almost seedless and solid. A vigorous grower, heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this Coast. Pkt. 5c; oz. 60c; ¼ lb. \$2.00.

**GOLDEN QUEEN**—A first-class, large, smooth, pure yellow Tomato. Pkt. 5c; oz. 40c; ¼ lb. \$1.00.

**YELLOW PEAR**—A small, pear-shaped Tomato, borne in great profusion, vine literally covered with clusters of fine, solid fruit; excellent for preserving. Very hardy. Pkt. 5c; oz. 75c; ¼ lb. \$2.50.

**YELLOW PLUM**—Small plum-shaped, deep yellow skin and flesh. For preserving. Pkt. 5c; oz. 75c; ¼ lb. \$2.50.

**YELLOW CHERRY**—Cherry-shaped fruit, deep yellow. Pkt. 5c; oz. 75c; ¼ lb. \$2.50.

**GROUND CHERRY OR HUSK TOMATO**—Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving; the fruit grows encased in a husk. Should be in every garden. Pkt. 5c; oz. 85c; ¼ lb. \$3.00.

## TOBACCO

**Culture**—Sow the seed thinly in beds, as early as they can be well prepared. Cultivate thoroughly, transplanting when 6 inches high to rows 4 feet apart each way.

**CONNECTICUT SEED LEAF**—Hardy, and the best adapted to cool localities. Pkt. 5c; oz. 75c.

**HAVANA**—Of fine texture and delicate flavor. Pkt. 5c; oz. 75c.

## Bordeaux Mixture

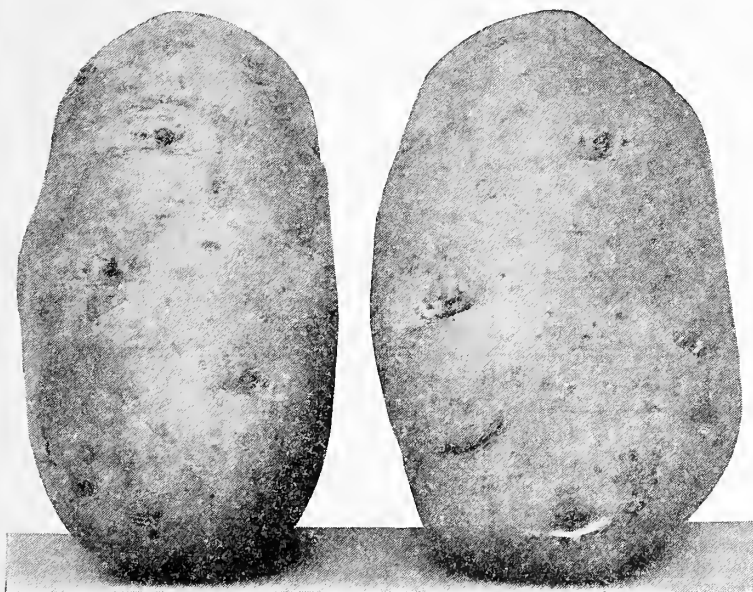
To prevent root-blight, pour a cupful of Bordeaux around the stem at the surface of the ground.

See Page 56.

## TOMATO PLANTS

Standard varieties for reasonable delivery—Healthy transplanted and pot grown plants—Safely packed and shipped to any point in the Northwest. Refer to our Plant Department (See Page 52.)

## SEED POTATOES



## SEMESAN BEL

for Controlling  
Seed-Borne Diseases  
of Potatoes

**Stem and Root Diseases**—Potato scab; russet scab or Rhizoctonia on seed potatoes; black rot, soft rot, and scurf or soil stain on seed sweet potato (ask for pamphlet describing in detail. (See Page 57.)

## SPOKANE SEED COMPANY'S "EARLIEST OF ALL"

Can Be Had Ready for Baking 9 Weeks From Planting, Fully Matured in 12 Weeks

Originally a selection from Early Eureka showing a marked difference in habit and greatly increased yield which years of careful re-selection have firmly fixed and improved. "Earliest of All" is a shallow eyed, white skinned variety of vigorous growth, not subject to blight or disease and does not make a second growth. The tubers are smoother and have fewer eyes than other varieties of this type. The white blossoms also easily distinguish it from Irish Cobbler, which has a purple bloom. Not affected by summer drouths owing to its quick growth and early maturity. Keeps as well as any late potato. The earliest of all early potatoes.

**EARLY OHIO**—One of the best early pink potatoes, similar to Early Rose. Tubers round, oblong shape. Eyes rather shallow but strong. A heavy yielding, dependable variety. An old favorite that is still popular in many sections. Prices, prepaid: 10 lbs \$1.00. Write for quantity prices.

**IRISH COBBLER**—Splendid creamy white potato for early market. Large, round, sometimes slightly netted. Produces very smooth potatoes and will bake dry and mealy, even before ripe. Extra early. 10 lbs., postpaid \$1.00. Write for quantity prices.

**EARLY ROSE**—Strong, vigorous vines of medium height. Flowers white, rather abundant. Tubers quite smooth, elongated or oblong, stem and seed end rather blunt. Eyes shallow, but sharp and strongly marked; skin thin but tough. Flesh creamy white, sometimes streaked with red, solid and brittle, rarely hollow. Our strain of this grand "old-timer" is exceptionally good. 10 lbs., postpaid, \$1.00. Write for quantity prices.

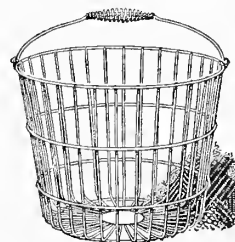
**EARLY SIX WEEKS**—Recognized as one of the very earliest varieties. Is also a good keeper. Very productive. Tubers round, pink skin, flesh very white and of excellent flavor. 10 lbs., \$1.00 postpaid. Write for quantity prices.

## MAIN CROP AND LATE VARIETIES

**BURBANK**—A standard commercial variety. Late and very productive. Skin nearly smooth. Eyes rather shallow. Tubers long and slightly flattened. Under proper selection it thrives as well now as at any time since its introduction. We offer a select, true, heavy yielding strain. Prices, prepaid: 10 lbs., 75c.

**CARMEN No. 2**—A flattened oval type, white skinned, a vigorous grower, yields well and is of good quality. Prices, prepaid: 10 lbs. 75c.

**NETTED GEM**—Russett Burbank, Yakima Gem, Idaho Russett, etc. A splendid main crop late potato that gives good results in dry sections. Tubers are elongated, medium sized with russet netted skin; flesh white; eyes are flush with surface; good keeper and produces a fine yield. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type. Prices, prepaid: 10 lbs. 75c. Write for quantity Prices.



Wire  
Potato  
Basket

\$1.50  
Each

HOLDS 1 BUSHEL

Does Your Soil Need Lime? Test With Soiltex





### Important Note

In our catalog we have listed our flower seeds alphabetically, and to assist in your selection all those marked by (B) ARE BIENNIALS, and those marked with (P) ARE HARDY PERENNIALS. THOSE NOT MARKED ARE ANNUALS.

## Information That Will Aid in Selection of Flowers

Flowering plants are enjoyed by everyone and cut flowers for home use or flowering plants for garden display can easily be grown; their care is a pleasant and healthful diversion and for the small expense of time and money nothing will return so much pleasure and profit. If you have any planting problems, if you wish to produce special effects or work out color schemes, write us; we will be glad to assist you in every way possible, and our experience is at your service.

Annuals bloom and ripen the first year and then they perish. Many annuals in warm climates, or when taken in, protected during Winter, become perennial, with short lives.

Hardy Annuals, Biennials and Perennials can be sown in open ground early in the Spring if desired, and Hardy Biennials and Perennials require no protection in Winter.

Perennials flower several years in succession.

Biennials do not generally flower the first year, and are in their perfection the second year.

Half-Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be shown in the house if desired, early, and afterwards transplanted. The two latter need to be protected in Winter, or carried over until Spring in cold frames or greenhouses.

Flower Seeds that are easy to grow under the proper conditions of heat and moisture will often fail when these conditions cannot be controlled. The following seeds require special attention and equipment for best results: Asparagus Plumosus, Asparagus Sprengerli, Begonia, Calceolaria, Cannas, Cineraria, Cyclamen, Heliotrope, Gentiana, Oenothera, Smilax and Primrose, except Evening Primrose.

**PLANTS IN SEASON**—In season we have a great many of the perennials that will bloom the first season and annuals for transplanting. See plant department.

## THESE ASSORTMENTS CANNOT BE CHANGED

### 15 PKTS. BEAUTIFUL, FREE FLOWERING, EASILY GROWN ANNUALS

**Coll. A**

Asters, Choice Mixed.  
Alyssum, Sweet.  
Bachelor's Button, Mixed.  
Cosmos, Mixed.  
Larkspur, Mixed.  
Marigold, Mixed.  
Mignonette, Large Flowered.  
Nasturtium, Tall, Finest Mixed.

Nasturtium, Dwarf, Finest Mixed.  
Pansies, Mixed.  
Poppy, Annuals Mixed, Double.  
Petunia, Finest Striped and Blotched.  
Phlox, Grandiflora, Fine Mixed.  
Sweet Peas, Mixed.  
Zinnia, Fine Mixed.

Postpaid For

**One Dollar**

### Wild Garden Flower Mixture

We offer a splendid collection of hardy annuals consisting of experimental hybrids, and special selections from fifty-acre Trial Ground, also a large collection of wild flowers and standard sorts, well calculated to make a striking display, to meet the demand for odd corner mixtures or to beautify the vacant lot where cultivation is difficult, and weeds usually predominate. Furnishes an abundance of flowers for cutting.

Pkt. 10c; oz. 25c; 1/4 lb. 75c, Postpaid.

### 10 PKT. SPOKANE SEED CO. "LITTLE FOLKS" COLLECTION OF FLOWER SEEDS

**Coll. B**

All children love flowers and take great pleasure in having their own plot of ground to work. We have selected this collection of easily grown annuals especially for the children. Each packet is full sized and contains a generous amount of seed.

Asters, choice mixed.  
Bachelors Button, mixed.  
Candytuft, mixed.  
Phlox, mixed.  
Sweet Peas, Mammoth, mixed.  
Dwarf Nasturtium, choice mixed.  
Marigold, mixed.  
Mignonette, large flowered.  
Poppy Double, mixed Peony flowered.  
Petunia, fine mixed.

FOR

**Sixty Cents**



**For Fall Planting Bulbs, Roots, Shrubs and Seeds Send for Our Fall Catalog—Issued in September**



# FLOWER SEEDS

## ASTERS

Asters grow to perfection in our mild, cool climate and splendid strains of the best-known sorts have been developed by careful selection. As Fall bloomers for garden or cut flowers, asters are most satisfactory, and the varieties we offer can be depended on for best results, rivaling the chrysanthemums in size and beauty. Asters require a rich moist soil.

### EARLY BEAUTY ASTERS

This type has all the characteristics of the late beauty type and is especially valuable in this climate, where the season is sometimes too late to flower the late type before rain or frost sets in. It can also be used to advantage for early forcing. Although it is not an extra early type, it does flower with the Crego and American Branching types.

Crimson Beauty.  
Lavender Beauty.  
White Beauty.

September Beauty.

Purple Beauty.

Rose Beauty.

Azure Fairy, pleasing light blue.

Pkt. each 10c; 1/8 oz. 40c.

### LATE BEAUTY ASTERS

A recently developed late flowering strain, which begins to flower in early September, lasting until destroyed by frost. Large flowers borne on long, stout stems from 18 to 24 inches. Plants grow nearly three feet in height.

Crimson Beauty—A bright crimson rose.

Lavender Beauty—A soft lavender.

Peach Blossom Beauty—A rich pink.

Rose Beauty.

Purple Beauty—A deep, rich purple.

September Beauty—A delicate sehl-pink.

White Beauty—A good white.

Packet, Each 10c; 1/8 oz. 40c.

### "CREGO GIANT"

The "Giant Crego" is distinct in every way, and its magnificent flowers, often 6 inches in diameter, have rare beauty of form and brilliant coloring, are very vigorous and free flowering. White, Shell-Pink, Rose, Crimson, Purple, Lavender, Lavender-Pink and Mixed. Pkt. 10c; 1/4 oz. 50c.

### "SENSATION"

"SENSATION"—This is a new variety, genuinely red. In shadow, its color tone is deep garnet, or ox-blood red; but sunshine brings out the life and brilliancy of fire. Its flowers average about 3 1/2 inches across, borne very freely throughout August and September on 12 inch stems. The plants are quite branchy, about 18 inches high. Pkt. 10c; 1/8 oz. 35c.

"MIKADO OR ROCHESTER"—A favorite with florists. Very long, narrow petals, toward the center they cross and recross in splendid confusion, strong branching habit. White, Rose, Pink, Lavender and Mixed. Pkt. 10c; 1/4 oz. 50c.

LATE BRANCHING—Flowers large, beautiful, double and borne on long stems. White, Rose, Shell-Pink, Lavender, Purple, Mixed. Pkt. 10c; 1/4 oz. 50c.

ACROCLINIUM—Everlasting—Grows about 15 inches high, white or rosy pink flowers, when cut in bud state, can be dried and used for winter bouquets. Sow early in sheltered location and transplant to permanent bed. Mixed. Pkt. 10c; oz. 75c.

AGERATUM—(Mexicanum)—For borders and bedding; covered with feathery blossoms all Summer; sow in early Spring in boxes to transplant or sow out of doors and thin to 4 to 6 inches. Shading dark blue to white. 1 to 1 1/2 ft. tall. Dark Blue, White or Mixed. Pkt. 10c; 1/4 oz. 25c.

AGROSTEMMA (P)—(Atro-Sanguinea)—Foliage silvery white, blossoms crimson, resembling single pinks. Striking beautiful for beds, ribbons and borders. Should be sown where plants are to remain and thinned to prevent crowding. Height 2 feet. Perennial. Pkt. 10c; oz. 65c.

ALYSSUM (P)—(Saxatile)—Showy, yellow flowers, blooms first season if sown early indoors. Fine for borders. Height 6 to 12 inches. Pkt. 10c; 1/4 oz. 35c.

PERENNIAL ASTERS—Hardy handsome flowers of easy culture, appearing at a time when flowers are scarce. If seed is sown indoors very early and seedlings set in open as soon as large enough to handle, will bloom the first season. Large Flowering Mixed. Pkt. 10c.

QUEEN OF THE MARKET—Best early Aster, of graceful spreading habit. Light Pink, White, Dark Blue, Light Blue, Mixed. Pkt. 10c; 1/4 oz. 50c.

ASTER-MUM—Of immense size resembling chrysanthemums in form, hence the name "Aster-mum." Plants about two feet high with good stems. Earlier than "Crego." White, Rose-pink, Lavender, Purple and mixed. Pkt. 10c; 1/4 oz. 50c.

GIANT COMET—Flowers large and beautiful; petals long and twisted. Rose, Crimson, Pink, Dark Blue, Light Blue, White, Mixed. Pkt. 10c; 1/4 oz. 50c.

ALYSSUM—A dainty white flower, for borders, edging and rockwork. In borders, sow thickly so as to form masses. Height 4 to 10 inches. Sow in Spring or late August. Maritimum—Sweet. Pkt. 10c; oz. 40c. Little Gem. Pkt. 10c; oz. 75c. Procumbens—Of trailing habit; profuse bloomer. Pkt. 10c; oz. 75c.

AMARANTHUS—Handsome foliage and interesting flowers, making a striking effect in borders and beds. Thrives in hot, sunny situation with rather poor soil. 2 to 5 feet. Sow early and transplant. Salicifolius—Willow leaved. Pkt. 10c; 1/4 oz. 50c. Caudatus—Graceful drooping flowers. Pkt. 10c; oz. 25c. Tri-color, or Joseph's Coat—Foliage scarlet, yellow and green. Pkt. 10c; oz. 75c.

ANCHUSA (P)—(Italica)—(Drop more)—A splendid, free blooming plant for hardy borders, height about 5 feet. Flowers a beautiful gentian blue color. Seeds should be sown in sheltered place outdoors and transplanted 2 to 3 feet apart. Pkt. 15c; 1/4 oz. 50c.

### NEW CALIFORNIA GIANTS

Combining the vigorous growth of "Beauty" and the Crego type of flower. A true, non-lateral type with flowers much larger. Their immense size, beauty and long sturdy stems make them very attractive in floral work. White, Peach Blossom, Light Blue, Deep Rose and Dark Purple. Pkt. 15c, 1/16 oz. 75c.

### 'HEART OF FRANCE'

"HEART OF FRANCE"—This new late Aster opens red as the purest ruby, deepens with age and retains its remarkable beauty to the very end. The flowers are large and full, with never a trace of hollow center, larger than any other dark sort. The plants are of branching type and very robust habit, 24 inches high. The stems are long and strong and have very few laterals. The plants begin to bloom quite early, open fully with the midseason varieties, but reach their supreme glory in September. Pkt. 10c; 1/4 oz. 65c.

NEW GIANT YELLOW—This is by far the best yellow aster that has been offered, large and fully double, strong plant 18 to 24 inches high. Packets each 10c; 1/4 oz. 75c.

ARABIS (P)—(Rock Cross)—One of the earliest and prettiest Spring flowers for rockeries or edging, withstands drought; pure white flowers. Sow in permanent location and thin to 6 inches. Height 6 to 8 inches. Alpina, Pkt. 10c; 1/4 oz. 30c.

ARCTOTIS GRANDIS—(African Daisy)—Plants form bushes about two feet across with deeply cut foliage, and daisy-like flowers often 2 1/2 inches in diameter, color of a lilac tinge. Pkt. 10c; 1/2 oz. 50c.

BACHELOR'S BUTTON—(Centaurea Cyanus—or Corn Flower)—A hardy, annual, easily cultivated. Produces flowers of a great variety of rich colors on tall, branching stems, with but little foliage. Striking and handsome. Sow in open ground early and transplant. 1 to 2 feet tall. Fine Single Mixed. Pkt. 10c; oz. 40c. Fine Double Mixed. Pkt. 10c; oz. 75c. Single Blue. Pkt. 10c; oz. 50c. Double Blue Florist Strain. Pkt. 10c; oz. 75c. Double Pink Florist Strain. Pkt. 10c; oz. 75c.



**BALSAM**—("Lady Slipper")—Handsome plants, producing masses of various colored flowers, half hardy. Curious seed pods which, when ripe, will explode when touched. If sown in May should bloom from July until frost. 1 to 1½ feet tall.  
**Double Camellia Flowered**—Mixed. Pkt. 10c; ¼ oz. 30c.

**BALLOON VINE**—A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain. Succeeds best in light warm soil. 10 to 12 feet tall. Pkt. 10c; oz. 25c.



**CALLIOPSIS**—Always covered with a mass of bright flowers. Sow where plants are to remain. In sunny situation will bloom all Summer. Fine cut flowers. 1 to 2 feet tall.  
**Crimson King**, Pkt. 10c; oz. 50c.  
**Golden Wave (Drummond)**, Pkt. 10c; oz. 50c.  
**Coronata Maxima**, Pkt. 10c; oz. 50c.  
**Tall Single Mixed**, Pkt. 10c; oz. 35c.  
**Tall Double Mixed**, Pkt. 10c; oz. 40c.  
**Dwarf Mixed**, Pkt. 10c; oz. 50c.

**BRACHYCOME**—(Swan River Daisy)—A charming flower in white and blue varieties. The plants grow about 12 inches

in height and bloom freely. Mixed, Pkt. 10c; ½ oz. \$1.00.

**BLUE LACE FLOWERS**—(Didiscus)—Plants grow about 18 inches in height, and are covered with clusters of tiny petaled flowers, giving the effect of dainty lace. The color is an exquisite light blue. Pkt. 15c; ¼ oz. 50c.

**CANDYTUFT**—(Iberis)—One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 to 3 inches high. Sowings every two weeks in the open will flower from July until frost. Grow 1 to 1½ feet.

**Umbellata Type**—Carmine, Flesh Pink, Rose Cardinal, Crimson, Lavender, White, Mixed. Pkt. 10c; oz. 50c.

**Coronaria**—Giant White Hyacinth Flowered. Pkt. 10c; ¼ oz. 30c.



**CANTERBURY BELLS (B)**—(Campanula)—Very ornamental garden plant growing 2½ feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades; hardy biennial. Sow seeds in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room.

**Medium Single**—Blue, rose, white or mixed. Pkt. 10c; ¼ oz. 25c.

**Calycanthemum**—(Cup and Saucer)—White, pink, light blue or mixed. Pkt. 15c; ½ oz. 60c.

**Persicifolia (P)**—Very fine, blooms in June. Blue or White. Pkt. 15c.

**Pyramidalis (P)**—Stately, hardy plant for pot culture or garden. Blue or White. Pkt. 10c; ½ oz. 50c.

**CALENDULA**—(Pot Marigold)—The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in Fall and kept in paper bags for use. 1 to 2 feet tall. Plant in early Spring in open ground.

**Orange King**—Double. Pkt. 10c; oz. 50c.

**Meteor**—Double. Pkt. 10c; oz. 25c.

**Lemon Queen Double**. Pkt. 10c; oz. 35c.

**Double Mixed**. Pkt. 10c; oz. 20c.

**CARDINAL CLIMBER**—Considered the most beautiful and brilliant annual climber. A strong and rapid grower, with fern-like foliage literally covered with a blaze of circular cardinal red flowers from midsummer until frost. Annual. Pkt. 15c; ¼ oz. 95c.

**CARNATION (P)**—(Dianthus Caryophyllus)—Carnations are Tender Perennials, being easily Winter killed. Splendid for cut flowers, deliciously fragrant. Colors pink, white and red. Sow seeds indoors in March. Transplant seedlings to other boxes when 1 inch high. Keep them growing well until soil is warm, then transfer to open garden. Height 1 to 1½ feet. See Plant Dept. also.

**Chabaud Everblooming**—Extra Choice Double Mixed—Flowers in five to six months. Pkt. 15c.

**Double Grenadin**—Comes into bloom very early and the charming, double scarlet flowers are very valuable for forming bouquets. Red, White. Pkt. 15c.

**Margaret**—Finest Double Mixed—Bloom in four months from seed. Pkt. 10c; ½ oz. 50c.

**Giant or Malmaison**—Mixed. Pkt. 15c.  
**Double Dwarf Vienna**—Mixed—Large flowered and comes into bloom early, producing flowers of many colors and beautiful markings; largely double. Pkt. 10c.

**CASTOR BEAN**—(Ricinus)—Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.

**Sanguineus**—Brilliant scarlet stems and fruit. Pkt. 10c; oz. 25c.

**Zanzibariensis**—Surpasses all in size and beauty of colors. Mixed. Pkt. 10c; oz. 25c.

Best varieties mixed. Pkt. 10c; oz. 25c.

**CANARY BIRD FLOWER**—Graceful, half hardy annual vine. Pkt. 10c; ¼ oz. 60c.

**CATCHFLY**—(Silene)—A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large enough. Fine Mixed. Pkt. 10c; oz. 45c.

**CELOSIA CRISTATA**—(Cockscomb)—Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thumb-pots until little combs appear. Grows 9 to 12 inches tall.

**Cockscomb Tall Mixed**, Pkt. 10c; oz. \$1.

**Dwarf Empress**, Pkt. 10c; ¼ oz. 75c.

**Dwarf Fine Mixed**, Pkt. 10c; ¼ oz. 65c.

**CELOSIA PLUMOSA**—(Feathered)—Large plummy heads. For pots or open ground. Keeps well when cut. 1 to 2 feet tall. Finest Mixed. Pkt. 10c; oz. \$1.00.

**Childsii**—(Chinese Wool Flower)—A unique form of feathered cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of rich crimson flowers that look as if made of silky wool. Effective in beds and borders. Valuable for cutting, as they can be dried, retaining their bright colors for weeks. Pkt. 15c; ¼ oz. 75c.

**CENTAUREA**—Sweet scented flowers on long, strong stems. Will last several days when cut. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 ft. tall.

**Imperialis**—(Giant)—White, purple, rose, deep lavender, and mixed. Pkt. 10c; ¼ oz. 35c.

**Suaveolens**—Yellow Sweet Sultan. Pkt. 10c; ¼ oz. 30c.

**Moschata Mixed**—Pkt. 10c; ¼ oz. 30c.

**Candidissima**—(Dusty Miller).—Pkt. 15c; ½ oz. 75c.

**CHRYSANTHEMUM**—Very showy, effective and desirable as Summer flowering plants. Hardy annuals. Sow seeds in flats very early in Spring and transplant to garden when soil is warm. Grows 1 to 2 ft.

**Carinatum Hybrida**—Finest double mixed. Pkt. 15c; ¼ oz. 25c.

**Carinatum and Segetum**—Varieties fine mixed, contain a fine range of colors. Pkt. 10c; oz. 50c.

**Coronarium**—Double finest mixed. Pkt. 10c; oz. 40c.

**CINERARIA (B)**—Magnificent and indispensable flowering plants for the window gardens. Should be sown under glass in very fine soil.

**Hybrida Grandiflora**—Choicest mixed (Pot Plant). Pkt. 50c.

**Hybrida**—Fine Mixed. Pkt. 25c.

**Dusty Miller**—(Maritima)—Beautiful silvery-leaved border plant; half hardy perennial. Pkt. 10c; ¼ oz. 35c.

**CLARKIA**—Hardy annual of easy growth, produces a fine effect massed in beds, bright and attractive. Fine for cutting. Does well in shade. Sow early in open ground. Grow 1 to 2 feet tall.

**ELEGANS DOUBLE**.

**Chamois**—With touch of pink. Pkt. 10c; ¼ oz. 35c.

**Scarlet Queen**, Pkt. 10c; ¼ oz. 35c.

**Salmon Queen**, Pkt. 10c; ¼ oz. 35c.

**Purple Prince**, Pkt. 10c; ¼ oz. 35c.

**White**, Pkt. 10c; ¼ oz. 35c.

**Fine Mixed**, Pkt. 10c; ¼ oz. 30c.



**CLEOME**—A splendid plant for large beds or shrubby border. Of branching habit, each branch producing a large head of attractive flowers. Sow in open ground as soon as weather is warm and settled. Height 3½ feet. Fine for bees. Mixed. Pkt. 10c; oz. 50c.

**COBEA SCANDENS**—(Plants in Season)—A handsome, rapid-growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. Seeds should be planted on edge in shallow boxes of soft soil, covering with glass until seedlings appear. Transplant about May.

Purple, Pkt. 10c; ¼ oz. 15c.  
White, Pkt. 10c; ¼ oz. 50c.

**COIX LACHRYMAE**—(Job's Tears)—A broad-leaved ornamental grass, having large, tear-shaped, hard shining, pearl-gray seeds. Plant in prepared seed bed in open. Oz. 10c.

**COLUMBINE (P)**—(Aquillegia)—Universal favorite for hardy borders and beds, for no other plant has so airy a grace nor is more generous of its blooms or more effectively adapted for cut flowers.

Single Mixed. Pkt. 15c; ¼ oz. 50c.  
Double Mixed. Pkt. 15c; ¼ oz. 50c.  
Long Spurred Hybrids—Mrs. Scott Elliott's strain, extra large flower, sweet scented, long spurred and best range of color obtainable. Pkt. 25c; 1-16 oz. 50c.

**COSMOS**—Beautiful autumn blooming plants producing thousands of artistic flowers. In this climate the late flowering types do not, as a rule, bloom much before early frosts, hence we list only early flowering types which by careful selection now have flowers as large as the late flowering kinds. Seed sown in the open ground in April should produce plants covered with blooms in July, or 6 weeks to 2 months earlier than late flowering. Plant not less than 18 inches apart in rows or in masses in beds. Pinching out tops when plants are a foot high makes them bushy and sturdy.

**COSMOS**—Extra Early Mammoth Flowering—Crimson, Pink, White, Pkt. 10c; oz. 65c.

Finest Mixed, Pkt. 10c; oz. 60c.

**EXTRA EARLY DOUBLE CRESTED**

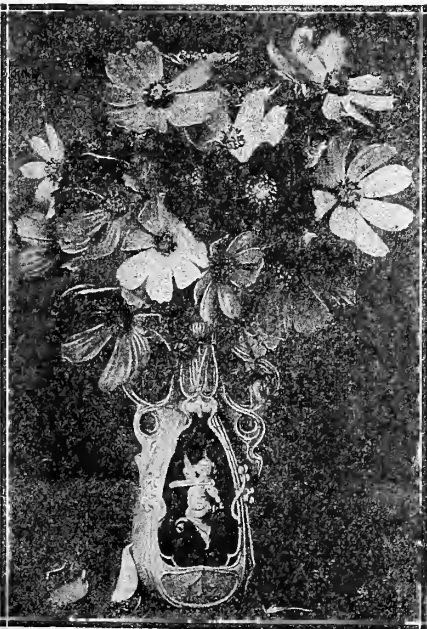
Crimson. Pkt. 20c; ½ oz. \$1.00.

Pink. Pkt. 20c; ½ oz. \$1.00.

White. Pkt. 20c; ½ oz. \$1.00.

Finest Mixed, Pkt. 20c; ½ oz. \$1.00.

Klondyke—Blooms very early and continuously 3 to 4 ft. high; flowers large, orange, borne on long stems. Pkt. 10c; ¼ oz. 75c.



**COREOPSIS (P)**—(Lanceolata)—Large, showy, bright yellow flowers produced in great abundance from June until frost; fine for cut flowers. Sow seeds indoors very early, transplanting to open when soil is warm. Height 1 to 2 feet. Pkt. 10c; oz. 65c.

**CYPRESS VINE**—(Ipomoea Quamoelit)—Climber with rapid growth. Has delicate fern-like foliage and great numbers of star-shaped blossoms with long tubes. Soak seeds over night in warm water, then sow where vine is to grow. Does best in warm, sunny location. Grows 10 to 15 feet. White, Scarlet or Mixed. Pkt. 10c; oz. 75c.

**DAHLIA (P)**—A magnificent, fall-blooming tuberous-rooted plant. Sow seeds in boxes indoors when danger from frost is past. Will bloom first season. Tubers of the best ones may be saved for following season.

Double Mixed. Pkt. 15c; ½ oz. 50c.

Single Mixed. Pkt. 10c; ½ oz. 40c.

Cactus—Flowers odd and fantastic in shape; all colors.

Finest Mixed. Pkt. 15c; 1-16 oz. 50c.

**DAISY (P)**—(Bellis Perennis)—Popular low-growing plant bearing beautiful flowers. Hardy perennial. Sow in boxes about August and transplant to cold frame or some location where they may be protected the first Winter. Plant in permanent location early in Spring. Height 6 inches. Extra

Double Mixed. Pkt. 10c; ½ oz. 50c.

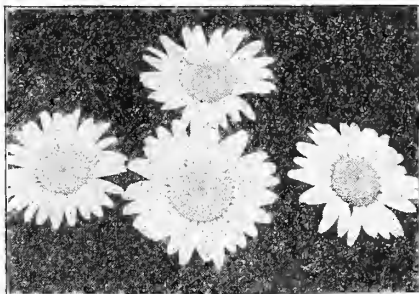
Longfellow—Double dark red. Pkt. 15c;

1-16 oz. 35c.

Giant Double Monstrosa—Dark red,

white, rose-pink. Pkt. 25c; 1-16 oz. 60c.

Shasta Alaska—Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center. Pkt. 15c; ½ oz. 50c.



**DATURA**—Large strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved like Dahlias. Sow in sheltered bed in open and transplant when 2 to 3 inches high. Give plenty of room and rich soil. Height 2 to 3 feet.

Fastuosa—Double mixed. Pkt. 10c; oz. 65c.

Cornucopia—Pkt. 15c; oz. \$1.25.

**DIMORPHOTHECA AURANTIACA**—(Orange African Daisy)—Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across, of a unique rich glossy orange gold, with dark disc and halo. Presenting a magnificent sight in full bloom. Pkt. 10c; oz. 50c.

**DIGITALIS (B)**—(Fox Glove)—A tall growing biennial with large leaves and spikes of vari-colored and spotted flowers. Fine for borders or background. Sow seeds in prepared seed bed in May. Keep seedlings well watered and transfer to permanent location in July or August. Give rich soil and plenty of room. Height 3 to 6 feet.

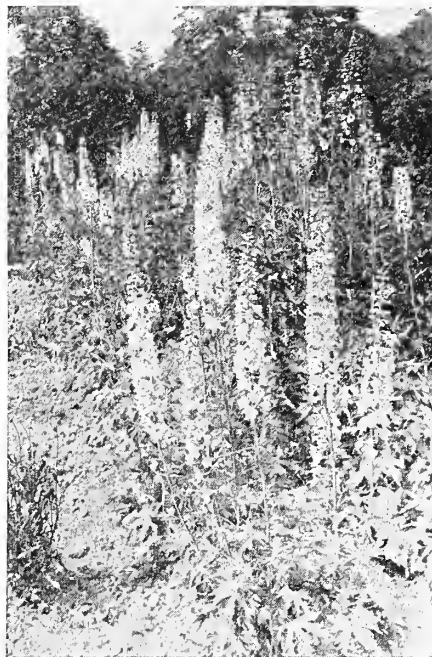
Gloxiniiflora—Mixed. Pkt. 10c; ¼ oz. 25c.

**EUPHORBIA**—Branching, bushy plants with smooth, glossy leaves of various colors. Suitable for beds or borders. Sow in open ground, transplanting when few inches high. Give plenty of room. Good foliage plant. Height 2 to 3 feet.

Variegata, Snow on Mountain. Pkt. 10c; ¼ oz. 25c.

Heterophyllia—Painted leaf. Annual poinsettia, 3 feet. Pkt. 15c; ¼ oz. 35c.

**FOUR O'CLOCK**—(Mirabilis Jalapa)—Marvel of Peru—Easy culture, bearing a profusion of bright flowers of various shades. Flowers open at four o'clock, close in morning. Sow seeds early in the open and transplant. Grows 2 to 3 feet high. Choice Mixed. Pkt. 10c; oz. 25c.



**DELPHINIUMS**—(Perennial Larkspur)—We can offer a mixture developed by the "Wing" Delphinium Gardens from stock of the famous Watkins Samuels, "Wrexham" strain of Delphiniums from the North of Wales. The range of colors in this mixture runs from the most delicate combination of mauve and light blue, Crater Lake blue, heliotrope, pink-lavender, creamy-white, deep blue, purple, etc.

MIXTURE "WREXHAM"

Strain Delphinium, \$1.00 pkt.

**OREGON GIANTS MIXED DELPHINIUMS**—Regular packets containing 100 seeds or more each. \$1.00 per pkt.; half pkts. 65c each.

We also offer the following very excellent collection of the regular standard sorts of Delphiniums for those who desire some of the older and less expensive strains.

Chinese Azure Fairy—Blue. Pkt. 10c; ¼ oz. 50c.

Chinese Blue Butterfly. Pkt. 10c; ¼ oz. 60c.

Chinese Album White. Pkt. 10c; ¼ oz. 50c.

Belladonna—Light Blue. Pkt. 25c; ½ oz. \$1.35.

Cardinale—Scarlet. Pkt. 15c; ½ oz. \$1.00.

Bellamosum—Dark Blue. Pkt. 15c; ½ oz. \$1.25.

One pkt. each above six varieties for 60c. See plant department for individual plants and clumps.

**FORGET-ME-NOT (P)**—(Myosotis)—Beautiful Spring favorites of easy growth, bearing clusters of lovely, small blue flowers. Can be left in open ground except in very cold latitudes. Fine for borders and shady situations. Sow in box or prepared bed in the open. Height, one foot.

Alpestris—Of trailing habit, with pretty flowers. Blue or mixed. Pkt. 10c; ¼ oz. 65c.

Victoria—Flowers large, bright azure blue; fine for borders. Pkt. 10c; ½ oz. 70c.

Semper florens—Dwarf; continuous bloomers; blue. Pkt. 10c; ½ oz. 70c.

**GAILLARDIA**—(Blanket Flower)—Very showy garden plant, with brilliant flowers; free blooming from early Summer until Autumn; especially effective in masses. Sow early where



plants are to bloom. Colors crimson and orange. Splendid cut flowers. Height 1 to 2 feet.

**Picta Lorenziana**—Double; finest mixed. annual. Pkt. 10c; ¼ oz. 25c.  
**Picta Single**—Finest mixed. Pkt. 10c; ¼ oz. 20c.

(P) **Grandiflora Maxima**. Pkt. 10c; ¼ oz. 40c.

**GERANIUM**—Sow thinly in boxes indoors, covering with glass until seedlings appear. When about one inch high transplant to small pots in rather poor soil firmly pressed down. Can later be re-potted in larger sizes or transferred to open garden.

**Zonale**—Extra choice, single mixed, the well-known bedding Geranium. Pkt. 15c; ½ oz. 95c.

**Lady Washington**—(Pelargonium)—Foliage green; flowers large. Finest mixed. Pkt. 25c; 100 Seed \$2.25.

**GEUM** (P)—(Chiloense)—Hardy, free-blooming plants. Fine for bouquets. Flowers crimson, double. Blooms all Summer. Height 8 to 12 inches.

**Mrs. Bradshaw**—Scarlet. Pkt. 15c; ½ oz. 75c.

**GODETIA**—Profuse and constant bloomers, compact and bushy in growth. Sow indoors in boxes and transplant. Succeeds in poor soil. Height 1 foot.

**Dwarf**—Fine Mixed, Pkt. 10c; ¼ oz. 35c.  
**Gloriosa**—Dark Red, Pkt. 10c; ¼ oz. 35c.  
**Duchess of Albany**—White. Pkt. 10c; ¼ oz. 35c.

**GOURDS**—Good climber. For covering verandas and trellis work; rapid growing, bearing fruits of curious shapes. Plant after soil is warm. Height 10 to 12 feet.

**Calabash**, Pkt. 10c; oz. 35c.  
**Mixed Varieties**, Pkt. 10c; oz. 35c.

**GYSOPHILA**—Grows from 18 to 24 inches, bearing beautiful, large, star-shaped flowers. First sowings in flats very early and transplanted. Make later sowings in open ground.

**Grandiflora Elegans**—White Paris market. Pkt. 10c; oz. 30c.

**GYSOPHILA** (P)—(Baby's Breath)—A pretty, free-flowering plant. Fine for bouquets. Seed very small. Sow in boxes indoors, covering lightly with sifted soil firmly pressed down. Transplant soon as large enough to handle. Height 2 to 3 feet.

**Paniculata**—Foliage fine; covered with tiny, pure white flowers.

**Hardy**, Pkt. 10c; ¼ oz. 25c.  
**Paniculata Fl. Pl. New**—About 50% double. Pkt. 15c; ½ oz. \$1.50.

**HELICHRYSUM**—(Strawflower or "Everlasting")—Hardy annual, 1½ feet. Flowers are round, flat but thick, very full of short, stiff, incurved petals surrounding a depressed center. Their chief value is for winter use in baskets and vases, dried. Cut with long stems when about a third opened, suspend bunch (heads down) in a cool, dry place until thoroughly dried. We offer the **MONSTROSUM** fl. pl. strain, which is the largest and most double, with the widest range of colors.

**Fireball**.

**Goldenball**.

**Rose Queen**.

**Crimson**.

**Silverball**.

**Violet Queen**.

All above varieties, Pkt. 10c each.

**Monstrosum** fl. pl. Mixed. All kinds together. Pkt. 10c; ¼ oz. 25c.

**HUNNEMANNIA**—(Glant Yellow Tulip Poppy or Bush Eschscholtzia)—Best of the Poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup yellow, poppy-like blossoms, and never out of flower until a hard frost. Height 2 to 3 feet.  
**Fumariaefolia**, Pkt. 10c; oz. 75c.

**HYACINTH BEAN**—(Dolichos Lablab)—Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seeds early where vine is to remain. Mixed, Pkt. 10c; oz. 15c.

**ICE PLANT**—(Mesembrianthemum Crystallinum)—Pretty Summer trailing annual for vases and rock work; leaves covered with ice-like drops. Sow seeds early in boxes. Height ½ to 1 foot. Pkt. 10c; oz. 75c.

**KOCHIA CHILDSII**—(Summer Cypress)—Forms symmetrical decorative bushes, foliage green, turning to fiery red in Autumn. Sow in open and thin to 15 inches. Valuable for Summer hedges. Height 1 to 2 feet. Pkt. 10c; oz. 35c.

**KUDZU VINE** (P)—(Pueraria Thunbergiana)—Beautiful Japan climber, hardy perennial with fragrant purplish-violet, wisteria-like flowers. Ht. 10 to 12 ft. Pkt. 10c; oz. 75c.

**HOLLYHOCKS**—

(New Annual)—

**Hybrida Semperflorens**—This

splendid variety will bloom in August, from Spring

planting, continuing until frost.

This is a great advantage, as other varieties do not bloom until the

second year.

**Finest Single Mxd.**

Pkt. 10c; ¼ oz. 30c.

**HOLLYHOCK** (B),

or **Althaea**—A great improvement over the old type,

the flowers being larger and richer colored for back-

grounds there can be nothing better.

Hardy. Should be sown in open from

Spring to mid-Summer, trans-

planting in late Fall. Give rich soil for best results.

Five feet high.

**Chaters**—Superb strains. Double varieties; of greatest perfection.

**Scarlet, Rose, Newport Pink, Maroon, Yellow, White, Mixed.** Pkt. 10c; ¼ oz. 35c.

**LARKSPUR**—The annuals are quite hardy and bloom in late Summer

months, furnishing flowers of striking beauty in form and color. Tall varieties

are suitable for shrubberies and borders, while the dwarf sorts produce

charming effects in beds. Height 1 to 2 feet.

**Dwarf Rockets**—Finest colors. Double Mixed. Pkt. 10c; oz. 75c.

**Tall Double Stock Flowered**—Lustrous Carmine, Dark Blue, Light Blue, Rose, White or Finest Mixed. Pkt. 10c; oz. 65c.

**LEMON VERBENA** (P)—Every garden should have a few plants of this fragrant favorite. Its pale green foliage

goes well with any flower. Height 1 to 2 feet. (Usually propagated from cuttings.) Pkt. 15c; ½ oz. 60c.

**LINUM**—(Grandiflorum Rubrum)—Scarlet Flax—One of the most showy bedding plants, fine foliage, with brilliant

scarlet-crimson flowers. Pkt. 10c; oz. 60c.

**Perenne** (P)—Pearl blue flowers; graceful. Pkt. 10c; ½ oz. 40c.

**Perenne Album** (P)—Milk white flowers, decorative. Pkt. 10c; oz. 60c.

**LOBELIA** (P)—(Cardinalis)—Flowers rich red, dark green foliage. Especially valuable for border decoration. Sow in boxes indoors. Cover very lightly with sifted soil and press down firmly. Cover box with glass until seedlings appear. If sown in January or February, will usually bloom in May. Height 6 to 12 inches. Pkt. 15c.

**LOBELIA**—Delicate, low-growing, annual plants of the greatest value for borders, ribbons, edgings, rock work and hanging baskets. Sow very thinly in boxes, covering with glass until seedlings are through surface. Height 6 to 8 inches.

**Saphir**—Deep blue with white eye, long, drooping flower stalks; grows rapidly; trailing. Pkt. 15c; ¼ oz. \$1.50.

**Speciosa**—Dark blue and dark leaved. Similar to Crystal palace but not so dwarf. Pkt. 10c; ¼ oz. 65c.

**Gracilis**—Blue, trailing; beautiful for baskets. Pkt. 10c; ¼ oz. 40c.

**Crystal Palace Compacta**—Dwarf flowers, very fine and rich, bright blue; finest for bedding and edging. Pkt. 10c; ¼ oz. 90c.

**Royal Purple**—Very dark-blue with white eye. Pkt. 10c; ¼ oz. 75c.

**LUPINUS**—Hartwegi. Dark Blue, Light Blue, Rose White, Mixed. Pkt. 10c; oz. 35c.

**LUPINUS** (P)—Shrubby plants, bearing long spikes of flowers. Colors white and pink, occasionally blue. Sow in open early in Spring. Transplant. Give plenty of room.

**Perennial**—Mixed. Pkt. 10c; oz. 50c.

**LYCHNIS** (P)—(Rose Champion)—Jerusalem Cross—Few plants produce more brilliantly colored blossoms. Flowers

are borne in clusters and continue fresh and brilliant for a long time. Hardy, 1

to 2 feet high. Orange, scarlet and crimson. Seeds should be sown where

plants are to remain, thin to prevent crowding. **Haageana Hybrida**—Mixed. Pkt. 15c; ½ oz. 50c.

**MARGOLD**—(Tagetes)—A hardy plant in dwarf and tall varieties; foliage

bright green and deeply cut. Flowers are various shades of yellow and brown.

Sow seeds early in flats and transplant to garden when 3 to 4 inches tall. For specimen plants soil should be light,

rich and deeply spaded. Height 1 to 2½ feet.

**African**—Tall or Dwf., Dble. **Fistulosa** Type Mxd. Pkt. 10c; ¼ oz. 35c.

**French**—Dwarf or Tall Double Mixed. Pkt. 10c; oz. 65c.

**Golden Ball**—New Dwarf. French Double. Compact. Pkt. 10c; oz. 65c.

**Little Brownies**—(Legion d'Honneur)—Dwarf Double Brownies. Pkt. 10c; oz. 65c.

**MIGNONETTE**—(Reseda)—A quick-growing fragrant annual. Produces the

largest and finest spikes of blossoms during cool, moist weather of early

Spring and late Fall months, but will flower freely throughout the Summer

from seed sown early in Spring. A second planting should be made about the

first of August. Sow seeds where plants are to remain. Difficult to transplant.

Height 1 foot.

**Odorata Grandiflora**—Large, well-formed, fragrant flowers. Pkt. 10c; oz. 25c.

**Machet**—White. White with reddish tinge. Best white Dwarf variety. Pkt. 10c; oz. 75c.

**Golden Queen**—Dense, dwarf growth; flower golden yellow; fragrant. Pkt. 10c; oz. 40c.

**Dobbies Giant Red**—Mammoth red spikes. Very fine. Pkt. 10c; ¼ oz. 35c.

See Page 55

Greenpod

Lawn & Rose

FERTILIZER

**MIMOSA**—(Sensitive Plant)—**Pudica**—A good foliage plant. Very curious and interesting leaves, close if touched or shaken. Height 1 to 2½ ft. Pkt. 10c; oz. 50c.

**MOON FLOWER**—(*Ipomoea Mexicana Grandiflora*)—Rapid growing climber belonging to the "Morning Glory" family. At night and on cloudy days vine is covered with fragrant white flowers 4 to 5 inches in diameter. Seeds must be soaked then planted where vine is to remain. Pkt. 10c; ¼ oz. 25c.

**MORNING GLORY**—The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation, attaining a height of 10 to 12 feet. Very fine for covering arbors, trellises, etc. The Minor or Dwarf varieties flower very freely and do not require support. Plant seeds early where plant is to remain.

**Convolvulus Major**—Tall, choice single, mixed, all colors. Pkt. 10c; oz. 15c.

**Double Mixed**—Tall. Pkt. 10c; ¼ oz. 25c.

**Convolvulus Minor**—Dwarf mixed. Pkt. 10c.

**Imperial Japanese Fringed**—These have very large fringed flowers in a great variety of the exquisite colorings; variegated foliage. Mixed—Pkt. 10c; ½ oz. 40c.

**NEMESIA**—A splendid border plant with the widest range in color. Is very early, a continuous bloomer and stands a lot of hardship. If topped, and watered when beginning to seed it will start blooming all over again. The Orchid-like flowers vary in color, blue, orange, rose, yellow, etc.

**Blue Gem**—Flowers almost like Forget-Me-Not. Pkt. 20c each.

**Triumph Mixed**, Pkt. 20c each.

**NICOTIANA**—A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the Fall, cut back and potted, will bloom freely all Winter. Half hardy annual; 3 ft. high. Sow seeds in boxes indoors or in a sheltered situation in the open. For the best results give plenty of room, rich soil and sunlight.

**Affinis**—White. Sweet scented. Pkt. 10c.

**Sylvestris**—Pure white, fragrant, drooping flowers; deep green foliage. Pkt. 10c; oz. 75c.

**Sanderae**—Resembles the "Affinis," but does not close up in the daytime. The plants are covered with carmine-red, fragrant flowers. Pkt. 10c; oz. \$1.25.

**OENOTHERA** — (Evening Primrose)—Elegant for growing in an exposed position, in border or on rockery; constant bloomer all Summer. Shades of yellow. Sow seeds early in boxes, covering very lightly with fine soil firmly pressed down. Transplant seedlings. Fine Mixed, Pkt. 10c; oz. 60c.

**PASSIFLORA (P)**—(Passion Flower)—Most interesting and well known climber, bearing singularly beautiful blue flowers. Height 10 to 12 feet. Pkt. 10c; ¼ oz. 65c.

**PEAS**—Perennial (P)—(*Lathyrus Latifolius*)—Similar to Sweet Peas but not so fragrant; they bloom through a long season, are perfectly hardy, and will live for years. Should be sown near a fence or other support, thinning to 2 to 3 feet apart. Height 4 to 6 feet. Mixed. Pkt. 10c; ½ oz. 35c.

**PENTSTEMON (P)**—(Beard Tongue)—Brilliant bell-shaped flowers borne on long spikes and produced abundantly all Summer. Colors range through red, rose, cherry, carmine, pink and purple. Should be sown indoors. Cover lightly and press down firmly. Transplant to open. Mixed. Pkt. 10c; ⅛ oz. 50c.

**"Sensation"**—As a bedding plant this takes rank with the Petunia. About 2 ft. Every branch a spike of flowers in a wide range of bright colors. Treated as Petunias. Pkt. 15c; ⅛ oz. 90c.



**PETUNIA**—(Hybrida)—During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy annual. Sow seeds very thinly indoors under glass. Care should be taken to save the weaker seedlings as they produce the finest flowers. Transplant to garden when soil is warm. Height 1 to 1½ feet.

**Single Choicest Mixed**, Pkt. 10c.

**Double Choicest Mixed**, Pkt. 35c.

**Double Fringed Mixed**, Pkt. 50c.

**Giants of California**—Choicest Ruffled Mixed (large throat). Pkt. 25c.

**Elks Pride**—Deep (Elks) Purple. Large flowers, fine for window boxes, borders and bedding. Pkt. 35c.

**City of Portland**—One of the finest shades of pink. Flowers large and ruffled. Fine for border or bedding. Pkt. 35c.

**Rosy Morn**—Pink white throat; fine for bedding. Pkt. 20c; ⅛ oz. 60c.



## NASTURTIIUMS

**NASTURTIIUMS** are hardy annual, of easy culture and flower best where the soil is not too rich. The new hybrids include various shades of rose, salmon, bright red, pale yellow, etc., either self-colored or spotted, mottled, striped and margined. For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, for bedding, etc., nothing can equal the gorgeous effect produced by their marvelous wealth of bloom, borne in uninterrupted splendor from early Summer till cut down by frost. The seeds picked green and pickled in vinegar have a piquant, appetizing flavor that is a valuable addition to relishes or pickles. Do not water too much nor sow on rich ground if abundance of bloom is desired.

### Tall Varieties

**CHAMELEON**—Variable flowers marked and blotched in many brilliant colors.

**CRIMSON**—Large, velvety crimson flowers, very attractive.

**CLOTH OF GOLD**—Fiery red, golden leaved.

**DUNNETT'S ORANGE** — (Sunlight)—Clear, rich golden yellow.

**MOONLIGHT-PEARL**—Soft primrose.

**PRINCE HENRY**—Fine lemon yellow, clear carmine blotches.

**REGELIANUM**—Purplish crimson.

**SALMON QUEEN**—Extra large light salmon, suffused rosy salmon.

**VON MOLTKE**—Bluish rose.

**NAMED VARIETIES**—Pkt. 10c; oz. 15c; ¼ lb. 50c.

**MIXTURE**—Standard tall varieties. Pkt. 5c; oz. 15c; ¼ lb. 40c.

### Dwarf Varieties

**CHAMELEON** — Variable colorings in bronze, crimson and yellow, rich markings.

**CLOTH OF GOLD**—Brilliant scarlet, golden yellow leaves.

**EMPRESS OF INDIA**—Intense scarlet, purplish green leaves.

**PRINCE HENRY**—Lemon yellow, with carmine blotches.

**REGELIANUM**—Purple-garnet.

**RUBY KING**—Bluish rose.

**VESUVIUS**—A rich salmon orange, dark foliage.

**NAMED VARIETIES**—Pkt. 10c; oz. 15c; ¼ lb. 50c.

**MIXTURE**—Standard varieties. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Stimuplant**

*makes a*

**Wonder Garden**

See Page 55



**ADONIS**—A distinct and beautiful shade of light blue with white center and dark blotch. Pkt. 10c.

**GOLDEN QUEEN**—A rich, pure yellow of the grandest form and size. Pkt. 10c.

**GIANT DARK BLUE**—A splendid blue black, very elegant. Pkt. 10c.

**GIANT STRIPED**—A superior strain of truly giant pansies, with the most beautiful striped markings in richest dark shades. Pkt. 10c.

**MASTERPIECE**—Giant Ruffled—The mammoth size, richness and beauty of colorings and frilled or ruffled character of the petals make "Masterpiece" one of the most distinct and interesting Pansies. Pkt. 15c.

**KING OF THE BLACKS**—(Giant)—Immense velvety back flowers of the finest quality, the largest and best black pansy. Pkt. 10c.

**SNOW FLAKE**—Pure white, of extra fine quality. Pkt. 10c.

## GIANT FLOWER- ING PANSIES

(The Largest and Most Beautiful Shades.)

These popular flowers thrive best on a cool but moist well drained soil, enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for Autumn blooming. The proper method is to sow in July or August and protect the plants during the Winter, when they will flower continuously the next Spring and Summer. Our Pansies are renowned as the most beautiful pansies in the world for size and color. In germinating Pansy seed allow plenty of ventilation. Keep your beds moist—quite moist—but not soaking wet until plants come up. Never allow your beds to become dry. Any dryness after seeds sprout is absolutely fatal.

**MADAME PERRET**—A beautiful and distinct type with edges of petals frilled—bordered white, colors are dark wine—pink and red, beautifully veined. The earliest of the Giants, and has the sweetest perfume. Pkt. 10c.

**CORNFLOWER BLUE**—A dainty blue, large, good substance. Pkt. 10c.

**VIOLET BLUE**—A new giant variety of a brilliant, dark indigo blue with violet luster, each petal having a large, dark brown, veined blotch. Edges slightly ruffled. Pkt. 10c.

ONE PACKET EACH OF TEN VARIETIES NAMED ABOVE FOR 80c.

## FANCY STRAINS OF MIXED PANSIES

**OREGON GIANT PANSIES—MIXED**—Our Oregon Giants are a selection of the finest strains and named varieties from the foremost American and foreign growers. This seed has been gathered by hand for several seasons from selected plants grown in Oregon and will produce plants and flowers of unsurpassed quality in the most pleasing colors and shades. Pkt. 25c; ¼ oz. \$1.25; oz. \$4.50.

**FINE MIXED**—Fine assorted colors. Pkt. 10c; ¼ oz. 50c.

**TRIMARDEAU GIANTS**—Remarkably large size, robust growth; very fine. Pkt. 10c; ¼ oz. 85c; oz. \$3.00.

**OREGON GIANT PANSIES IN BLOOM**—From March until June we offer our famous "Oregon Giant" Pansy plants in full bloom. Put up one dozen in a package. Mailing wt. 4 lbs. Price 75c and \$1.00 per dozen.

**PINKS**—The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy and become perennial in warm climates. Sow seeds in boxes indoors and plant out in good soil when 1 to 2 inches high.

**Chinensis Type**—Single Mixed. Pkt. 10c; ¼ oz. 25c.

**Double Mixed**, Pkt. 10c; ¼ oz. 35c.

**Heddewigii Type.**

**Crimson Belle**—Single deep crimson. Pkt. 10c; ¼ oz. 25c.

**Eastern Queen**—Single rose. Pkt. 10c; ¼ oz. 25c.

**Vesuvius**—Single orange-scarlet. Pkt. 10c; ¼ oz. 35c.

**Finest Single Mixed**, Pkt. 10c; oz. 75c.

**Fireball**—Double deep scarlet. Pkt. 15c; ¼ oz. 60c.

**Salmon King**—Double salmon. Pkt. 15c; ¼ oz. 65c.

**Snowball**—Dle. white. Pkt. 15c; ¼ oz. 65c.

**Finest Double Mixed**—Pkt. 10c; oz. 30c.

**PORTULACA**—(Rose Moss)—Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations and blooming profusely in early Summer to Autumn. For low beds and masses of color from Spring until frost they are



Phlox Drummondii

indispensable; colors range through innumerable shades of red, yellow, pink, white, striped, etc. Sow seeds indoors. Thrive best in hot and dry situation.

**Single Mixed**, Pkt. 10c; ¼ oz. 45c.  
**Double Mixed**, Pkt. 10c; ½ oz. 75c.

**PHLOX DECUSSATA (P)**—(Perennial). Large compact heads of bloom from mid-Summer until Fall. Height 2 to 4 feet. Wide range of colors. Sow seeds early in boxes and transplant seedlings once before placing in permanent location. Usually blooms the first season. Requires 5 to 6 months for seed to germinate. See Plant Dept. for finest named varieties.  
**Mixed**, Pkt. 10c; ½ oz. 60c.

**PHLOX DRUMMONDI**—Unrivalled for richness and beauty of color, ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high. Sow as soon as soil is warm. Transplant about one foot apart.

**Large Flowering**—Crimson, white or mixed. Pkt. 15c; ½ oz. 50c.

**Chamois Rose**, Pkt. 10c; ¼ oz. 75c.

**Isabellina**—Pale yellow. Pkt. 10c; ¼ oz. 75c.

**Kermesina Splendens**—Crimson with white edge. Pkt. 10c; ¼ oz. 75c.

**Greenpod Mixture**, Pkt. 10c; ¼ oz. 75c.

**Dwarf Mixed**, Pkt. 10c; ¼ oz. 75c.

**Star Phlox**—(Cuspidata)—Flowers have a distinctive star-like appearance, with white margins, excellent for bouquets. Pkt. 10c; ½ oz. 75c.





## Shirley Poppies

**SHIRLEY POPPIES**—Very beautiful satiny flowers of various colors from white through delicate shades of rose, pink and carmine, to the deepest crimson. Fine for cutting and will keep fresh in water for several days if cut before the blooms are fully expanded.

**American Legion**—Brilliant orange scarlet, yellow anthers. Pkt. 10c; ¼ oz. 25c.

**Eldorado**—Double pink shades, exquisite. Pkt. 15c; ¼ oz. 40c.

**Eldorado Double Mixed**. Pkt. 10c; ¼ oz. 25c.

**Flesh Pink**, Pkt. 10c; ¼ oz. 35c.

**Picotee**—White cup, scarlet edging. Pkt. 10c; ¼ oz. 35c.

**Rose Pink**—Wild rose pink. Pkt. 10c; ¼ oz. 35c.

**Salmon Pink**, Pkt. 10c; ¼ oz. 35c.

**Finest Mixed**, Pkt. 10c; oz. 40c.

## California Poppy

**CALIFORNIA POPPY**—(Eschscholtzia)—

—They commence to bloom within a few weeks' time from Spring-sown seed and continue to flower profusely until late in the Autumn, forming nice, bushy plants 1 to 1½ feet high. Colors yellow, red, orange and white. Fine delicate foliage. Sow seeds in Fall or Spring where plants are to remain. Seedling are difficult to transplant. Thin to 12 inches.

**Aurantiaca**—Rich orange, true California Poppy. Pkt. 10c; oz. 35c.

**Carmine King**—Deep carmine. Pkt. 10c; ½ oz. 45c.

**Golden West**—Yellow with orange center. Pkt. 10c; oz. 30c.

**Mikado**—Orange crimson. Pkt. 10c; ½ oz. 40c.

**The Geisha**—Inside petals brilliant gold, outside orange-crimson petals fluted. Pkt. 15c; ¼ oz. 40c.

## POPPIES

**POPPY**—(Papaver)—Magnificent, showy flowers borne separately on tall stalks in many bright and charming colors. Some are hardy annuals, others are perennials. Sow seeds very early where they are to remain. Barely cover seed with fine soil and press down firmly. Thin to one foot. If cut before fully open blossoms will last several days. For perennial varieties seeds should be planted in small pots and thinned to one plant, as they are difficult to transplant. When pot is full of roots, plant in permanent location in good soil. Height 1 to 3 feet.

**Bracteatum (P)**—Very showy, red. Pkt. 10c; ¼ oz. 40c.

**Icelandic, or Nudicaule (P)**—Bright green, fernlike foliage, formed in tufts from which issue slender stalks about 12 inches high, bearing yellow, white or orange-scarlet flowers in endless profusion and most useful for cutting. Single. Mixed colors. Pkt. 10c; ¼ oz. 65c.

**Oriental (P)**—Hybrida mixed. Pkt. 10c; ¼ oz. 65c.

**Carnation Flowered Tall Double**.

**American Flag**—White margined scarlet.

**Blood Red**—Violet Blotch.

**Bright Rose**.

**Finest Mixed**. Pkts. 10c; oz. 40c.

**King Edward**—Single—Large flowers produced with great freedom. Deep scarlet shaded crimson, with large black blotch. Height 2½ feet. Pkt. 10c; ¼ oz. 25c.

**Glaucum**—(Tulip Poppy)—Brilliant scarlet flowers 3 inches across. Pkt. 10c; oz. 75c.

**PYRETHRUM ROSEUM (P)**—Single Hybrids Mixed—Pkt. 10c; ½ oz. 45c. A lovely flower of easy culture and should be more generally grown. They resemble large daisies, but of various shades of pink, deep red and purple and make a pretty show in the garden. They also make handsome cut flowers, having stems 1½ feet long. The plants are perfectly hardy; grow 2 feet high.

**PYRETHRUM**—Very ornamental plants, for both foliage and flowers. Seeds should be sown very early in boxes. Cover very lightly with sifted soil and press down firmly. Transplant to permanent location as soon as large enough to handle. If flowers are allowed to form, foliage will change from yellow to green. Height 1 to 2 feet. **Parthenifolium Aureum, or Golden Feather**—Gold leaved, flower white. Pkt. 10c; ¼ oz. 25c.

**RUDBECKIA (P)**—(Golden Glow)—Brilliant orange yellow petals around a large dark center. Useful for borders or as a single group. Sow seeds in a sheltered location and transplant when a few inches high. Height 4 to 6 feet. **Newmanni**—Pkt. 15c; ¼ oz. 85c. **Fulgida**—Orange yellow. Pkt. 15c; ¼ oz. 65c.

**SALPIGLOSSIS**—(Painted Tongue)—Showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals. Sow seeds in boxes indoors or in a hotbed. **Superbissima**—Finest mixed. Pkt. 10c; ¼ oz. 50c.

**SALVIA**—(Flowering Sage)—Very ornamental, flowers borne in spikes of fiery red or crimson; and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Excellent for bedding in masses or single planting. Hardy annuals.

**Zurich**—(Dwarf Early)—The finest of all Dwarf Salvias. Very floriferous. Pkt. 15c; ½ oz. \$1.00.

**Splendens**—Brilliant scarlet. Pkt. 15c; ¼ oz. \$1.00.

**Bonfire**—(Clara Bedman)—One of the finest Salvias ever introduced; compact bush about two feet in height and diameter. Pkt. 15c; ¼ oz. \$1.25.

**SAPONARIA OCYMOIDES (P)**—Very showy hardy perennial rock plant, producing masses of small bright rose flowers during the Summer months. Pkt. 10c; ½ oz. 45c.

**SCABIOSA**—(Sweet Scabious, or Mourning Bride)—Free flowering annuals; white, carmine, lilac, maroon, etc.; effective for garden decoration and valuable for cutting. Sow seeds in open as soon as soil is warm, thinning to 8 to 10 inches. Blooms from early July until frost. Height 2 to 2½ feet.

**Double**—Mixed. Pkt. 10c; oz. 75c.

**Azure Fairy**, Pkt. 10c; oz. 75c.

**Black Purple**, Pkt. 10c; oz. 75c.

**Fiery Scarlet**, Pkt. 10c; oz. 75c.

**Rose**, Pkt. 10c; oz. 75c.

**Pure White**, Pkt. 10c; oz. 75c.

**SCHIZANTHUS**—(Butterfly Flower)—Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Splendid bedding plant. Seeds sown in open come into bloom in a few weeks. Fine pot plant for house in Winter. Height 1 to 2 feet.

**Rose and Amber Shades**. Pkt. 15c; ¼ oz. 50c.

**Grandiflora Hybrids Mixed**, Pkt. 10c; oz. 85c.

**STATICE (P)**—(Sea Lavender)—Splendid for border or rockery, producing panicles of minute flowers, can be dried and used for Winter bouquets.

**Latifolia**—Sow like other perennials in flats or cold frames and transplant when large enough into permanent positions, 12 to 18 inches apart.

**Blue**—Pkt. 10c; ¼ oz. 35c.

**STOCKS**—See page 30.

**SUNFLOWER**—(Helianthus)—Stately growing annuals with immense golden yellow flowers; effective for garden decoration. Height 6 to 8 feet.

**Dwarf Double**—Bright golden yellow flowers three inches across. Pkt. 10c; oz. 65c.

**Globosus Fistulosus**—Saffron, very large, double and handsome. Pkt. 10c; oz. 45c.

**Multiflora**—Beautiful, double yellow flowers. Pkt. 10c; oz. 60c.

**SWEET ROCKET (P)**—(Hesperis)—An old hardy garden favorite. Fragrant white flowers, 2 to 3 feet high, resembling Perennial Phlox. Sow early and transplant. Pkt. 10c; ¼ oz. 20c.

**SWEET SULTAN**—(See Centaurea).

**SWEET WILLIAM (B)**—(Dianthus Barbatus)—Remarkable free-flowering plant of brilliant colors, ranging from

snow-white to darkest crimson and purple, and emitting a very delicate and refreshing fragrance. May be sown in open and thinned to 6 to 8 inches. Height 1 to 1½ feet.

**Coppery Red**—Single.

**Dunnett**—Dark crimson, single.

**Pink Beauty**—Pink, single.

**Scarlet Beauty**—Single.

**Pure White**—Double.

**Double Mixed**, Pkt. 10c; ¼ oz. 75c.

**Single Mixed**—Very beautiful. Pkt. 10c; ½ oz. 60c.

**THUNBERGIA**—(Black Eyed Susan)—rapid-growing annual climbers; splendid for training over trellises, fences, etc.; buff, white, orange, etc., four to six feet high. Grows readily from seed sown in the open.

**Mixed Colors**, Pkt. 10c; ¼ oz. 45c.

## SNAPDRAGONS

Antirrhinum.

One of the most useful and showy of border plants of almost every color. Also makes splendid cut flowers. They have recently been much improved and are now really magnificent. For best results plant seeds indoors very early, planting out when about 3 inches high. Height 2 to 3 feet.

**TALL GIANT FLOWERED**

**Defiance**—Scarlet.

**Golden King**—Giant yellow.

**Queen Victoria**—Pure white.

Pkt. 10c; ¼ oz. 35c.

**Rose Queen**—Soft pink. Pkt. 10c; ¼ oz. 35c.

**All Varieties Mixed**—Pkt. 10c; ½ oz. 40c.

**MEDIUM TALL VARIETIES.**

**Queen of the North**—White. Pkt. 10c; ¼ oz. 30c.

**Bonfire**—Buff shaded scarlet.

**Rose Dore**—Rose suffused orange.

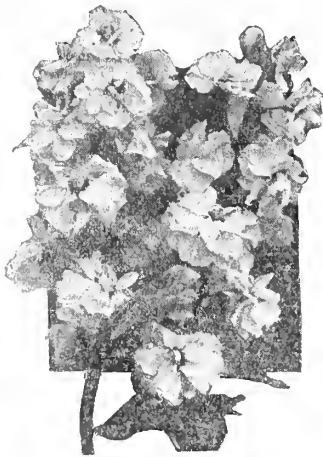
**Golden Queen**—Giant yellow.

Pkt. 10c; ¼ oz. 35c.

**Grenadier**—Large orange scarlet. Pkt. 15c; ¼ oz. 50c.

**Silver Pink**—Large pearly pink. Pkt. 15c; ¼ oz. 50c.

**Mixed Varieties**, Pkt. 10c; ¼ oz. 25c.



**STOCKS**—These popular flowers are easily grown, and are so highly fragrant and of such beauty they deserve a place in every garden. Should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches.

**Imperial Large Flowering Ten Weeks—**

Blood Red, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.  
 Canary Yellow, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.  
 Chamois—Ivory tinted old rose. Pkt. 15c;  $\frac{1}{8}$  oz. 75c.  
 Dark Blue, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.  
 Flesh Pink, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.  
 Lavender, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.

Rose, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.

White, Pkt. 15c;  $\frac{1}{8}$  oz. 75c.

Choice Mixed, Pkt. 10c;  $\frac{1}{8}$  oz. 65c.

**Dresden Perpetual or Branching**—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late Autumn. Very fragrant.

Princess Alice—White.

La France—Blush pink.

Brilliant—Blood red.

Sapphire—Violet.

Creole—Canary yellow.

Mary Queen—Pale blue.

Rose Pink.

**Virginian Stock**—A fine, early flowering plant. Hardy annual. Mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 15c.

**Evening Scented Stock**—(Matthiola Bicornis)—Old-fashioned annual which has no beauty to recommend it, but well worth growing for its entrancing fragrance each evening. Pkt. 10c; oz. 60c.

**TRITOMA (P)—(Red Hot Poker)**—Bright, showy flowers produced in large spikes of brilliant rich colors. Although hardy, requires some protection through the Winter. Will bloom first season from seeds sown indoors very early and planted out as soon as soil is warm. Cut flowers keep a long time. Height 2 to 3 feet.  
 Uvaria—Dazzling orange red. Pkt. 15c;  $\frac{1}{4}$  oz. 75c.

**VALERIANA (P)—(Garden Heliotrope)**—Sweet scented flowers having red or white blooms produced in large heads.

Each Pkt. 15c  
 $\frac{1}{4}$  oz. -1.00

Fine border plants, 2 to 3 feet high. Sow early in boxes and transplant to permanent location as soon as large enough to handle. Should have rich soil.

Red, Pkt. 10c;  $\frac{1}{4}$  oz. 35c.

**VERBENA**—Start seed in the house or under glass early in Spring and transplant after 3 to 4 inches of growth. They flower in July and until frost. Height 8 to 12 inches.

**Mammoth Mixed**—Selected; extra large, fine. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

Fine Mixed, Pkt. 10c;  $\frac{1}{4}$  oz. 40c.

Pink Shades, Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

Blue Shades, Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

Candidissima—White. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**LEMON VERBENA**—See page 26.

**VINCA (P)—(Old Maid)**—Tender perennial. Fine for pot culture. Flowers white and pink.

Mixed, Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**WALL FLOWER (B)—(Cheiranthus Cheri)**—Spikes of beautiful, exceedingly fragrant flowers. Colors yellow, red, orange and brown. Half hardy perennials. Sow in open, transplant to permanent location late in Summer. Should bloom second season. Height 1 to 1 $\frac{1}{2}$  feet.

**Single, Mixed**—Large flowering. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**Finest Tall Double Mixed**—Branching. Pkt. 15c;  $\frac{1}{8}$  oz. 75c.

**STIMUPLANT**  
 Makes a  
**WONDER GARDEN**

## ZINNIA

A half hardy annual growing from 1 to 2 feet high. The colors are in great variety and very bright. Probably no flower has such an assortment of shades, tints and colors, and no bedding plant is more effective for a brilliant show. Sow in boxes early and transplant.

### New Dahlia-Flowered

New Dahlia-Flowered Zinnias are distinct. The flowers are of immense size and are made up of a great number of small-sized petals. The individual petals stand well apart, giving an attractive grace and looseness to the flowers. They are strong growers, blooming profusely all during Summer and Fall.

**CRIMSON MONARCH**—One of the best, with immense flowers. A bright and attractive shade of crimson-scarlet. The blooms are of perfect form; borne in great profusion.

**EXQUISITE**—The flowers resemble a large Decorative Dahlia. They are a pleasing shade of reddish rose with deeper rose in the center. One of the most attractive of this type.

**GOLDEN STATE**—An excellent color. Rich golden yellow, shading to orange as the flower ages. Very large and of fine form. Borne on long stems.

**SCARLET FLAME**—Rich orange-scarlet. A dazzling color; is one of the brightest, always attracting attention. Blooms profusely.

**DREAM**—The large flowers are a distinct shade of deep lavender, shading to purple as they age. Very large and of fine form. A free bloomer of strong and sturdy growth.

**POLAR BEAR**—This is decidedly the finest of all white Zinnias. The flowers are of great size and pure in color. The flowers are borne with a wonderful profusion on fine strong stems.

**ORIOLE**—Considered the most beautiful of its class. Immense orange and gold bicolor, changing slightly as it ages.

**METEOR**—A rich glowing deep red, the darkest of all the red shade; fine form. Very large and greater bloomer than other reds.

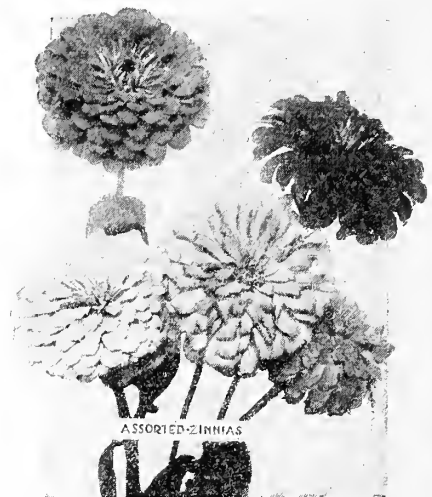
**BUTTERCUP**—An immense deep creamy yellow. Very desirable and should be included in every collection.

**OLD ROSE**—Real old rose, for charm and beauty ranks next to Exquisite. Separate Colors above named varieties—Pkt. 20c;  $\frac{1}{8}$  oz. 85c.

**DAHLIA-FLOWERED MIXTURE**—This is a complete Mixture of Dahlia-flowered Zinnias, including all the above separate colors and many other beautiful and rich shades. Pkt. 15c;  $\frac{1}{4}$  oz. 50c;  $\frac{1}{2}$  oz. 95c; oz. \$1.75.

#### COLLECTION OF DAHLIA- FLOWERED ZINNIAS

This collection contains one packet of the 10 separate colors of Dahlia-flowered Zinnias described above. It will be mailed to any address, post-paid  
**\$1.50**



### Giant Double Flowered Zinnias

These are not to be confused with the common or small flowered strains, as they are truly giant flowered.

Apricot Orange

Deep Flesh

Golden Yellow

Deep Salmon Rose

\*Shrimp Pink

\*Salmon, light salmon rose

White

Above—Each, Pkt. 10c.

**GIANT FLOWERED ZINNIAS MIXED**—A splendid mixture of above and others. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**DWARF DOUBLE MIXED**—Pkt. 10c;  $\frac{1}{4}$  oz. 30c.

**PICOTEE TYPE**—All colors mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**VICTORY QUILLED**—All colors mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

# SWEET PEAS

GREENPOD BRAND

Our famous Sweet Peas are selected with critical care and we offer the best productions of the foremost growers. Although we list only those we consider best, we can supply any variety in commerce, and special orders will receive careful attention.

**CULTURE**—First and most important, plant as early in the Spring as the conditions will permit. Seeds should be sown at the rate of one ounce to 15 feet. Make a trench about 3 to 4 inches deep, planting the seeds in the bottom about 3 inches deep, pressing the soil down firmly. After the plants are well up, thin to 4 or 5 inches apart, and draw the soil around them until the trench is filled above the level. This gives a depth to the roots, preserving the moisture. Keep the ground well worked and water if needed, an occasional thorough soaking being better than a daily sprinkling. Keep the flowers cut close and a pruning of the tips of the vines will also aid in prolonging the season of bloom and insuring better flower.

## NEW AND UP-TO-DATE VARIETIES

An Exceedingly Well Balanced Collection of SUPERB SPENCERS



**MARY PICKFORD**—Is a sturdy grower, producing an abundance of four-flowered sprays on long, stout stems. It is a beautiful light and dainty cream pink, with just the faintest suffusion of salmon, making the color combination difficult to equal and most hard to surpass. *Mary Pickford* flowers are perfectly formed, with both standards and wings decidedly waved, and the keel blends nicely with the coloring of the entire flower. The individual flowers are most gracefully placed. In sealed packets only containing 12 seeds each at 25 cents per packet.

**MISS CALIFORNIA**—A most beautiful and outstanding orange-salmon, cream-pink Sweet Pea, which won an award of merit at the British National Sweet Pea Society 1924. The beautiful coloring of the flower and blending of shades is perfect and wonderful. The flowers are large, beautifully waved and borne in fours on long stout stems. The plant is an exceptionally vigorous grower and cannot but give satisfaction to everyone. Pkt. 15c; oz. 75c.

**CAMPFIRE**—The brightest scarlet sunproof Sweet Pea ever offered. It is the last word in vivid color, and stands out besides all other varieties in this class. The flowers will stand the hottest sunshine, in fact, the brighter the sun the better the color. Flowers are of fine size and borne in profusion on plants of great vigor. It is a variety which can be highly recommended for garden decoration and cut-flower use as well. Be sure to try this splendid Sweet Pea. Pkt. 15c; oz. 75c.

**CRIMSON KING**—So distinct from other varieties in the Crimson class that even the passing visitor quickly and easily picks it out as the best and most attractive. It is of extremely strong growth, and produces throughout the season an abundance of beautiful, very long-stemmed sprays which stand out well from the foliage, and invariably carry more fine four-bloom sprays than three. The color is a solid rich, deep, clear crimson, becoming richer in the throat. Entirely free from sunburn and wind scald at all times. Pkt. 15c; oz. 75c.

**LA. FRANCE**—A most charming and delicate shade of light shrimp pink. The flowers are large and well formed. A strong and vigorous grower, usually carrying four flowers to a stem. Pkt. 15c; oz. 75c.

**HAWLMARK PINK**—A rich glowing deep rose pink flushed salmon with the flowers invariably borne in fours. The large blooms are most beautifully waved and well placed on their long stems, making the bunch effect very rich and appealing. Pkt. 15c; oz. 75c.

**THE PRESIDENT**—Without question the most brilliant in the orange-scarlet class. The flowers are of immense size with good form, and usually borne in fours on strong stems. The color is a brilliant orange-scarlet. Pkt. 15c; oz. 75c.

**ROYAL PURPLE**—A rare new shade, rich purple, almost true royal, a color that does not exist in *Grandiflora* type. Pkt. 10c; oz. 50c.

**MRS. TOM JONES**—The flowers are very large and of great substance, beautifully waved, and usually borne four on a stem of great length. Color is best described as a bright "delphinium blue," long wanted and now secured in this variety. Pkt. 15c; oz. 75c.

**HAWLMARK LAVENDER**—Considered the best yet in lavenders. The color is a blending of lavender shades. Exquisite form, beautifully waved and crimped, broadly expanded standard and large spreading wings. The plants make a strong, sturdy growth producing attractive four-flowered sprays on long stems. Pkt. 15c; oz. 75c.

**YOUTH**—An exceptionally large, fragrant Sweet Pea. Color white, edged with a delicate, soft rose-pink. The plant is robust in growth, and bears four blossomed sprays in great profusion. Pkt. 15c; oz. 75c.

**KING WHITE**—One of the most magnificent whites of perfect Spencer type. The immense petals are gracefully frilled, and remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Pkt. 10c; oz. 50c.

## EARLY FLOWERING SPENCER SWEET PEAS

Six weeks earlier than the Spencers, these new early-flowering varieties begin to bloom 106 days from planting in the open ground and flower through a long season—about four months.

**AVIATOR**—Dazzling crimson scarlet. Pkt. 15c; oz. 75c.

**BLUE BIRD**—Magnificent violet blue. Profuse and continuous bloomer. Pkt. 15c; oz. 75c.

**CANARY BIRD**—Splendid cream or primrose colored self. Flowers of great size and beautifully waved. Pkt. 15c; oz. 75c.

**COLUMBIA**—Without doubt the best and most productive pink and white. (Early Blanch Ferry.) Pkt. 15c; oz. 75c.

**GLITTERS**—A strong and vigorous grower. Profuse and continuous bloomer. Standard bright fiery orange, wings deep orange. Pkt. 15c; oz. 75c.

**HARMONY**—A splendid variety, rich true deep lavender throughout. Flowers of large size, beautifully waved. Pkt. 15c; oz. 75c.

**HELEN LEWIS**—Orange salmon. Pkt. 15c; oz. 75c.

**HERCULES**—Giant pink. Pkt. 15c; oz. 75c.

**IMPROVED SNOWSTORM**—A vigorous grower, the immense flowers are invariably borne in fours on very long stems. Pkt. 15c; oz. 75c.

**MAROON PRINCE**—Deep rich glowing reddish maroon, really a unique color. Flowers beautifully waved and of large size. A strong grower and profuse bloomer. Pkt. 15c; oz. 75c.

**ROSE QUEEN**—Pleasing shade of fine rose pink. Flowers borne on long stems, of great size and much waved. Pkt. 15c; oz. 75c.

**YARRAWA**—The flowers average two and one-half inches in diameter; many are duplex or double. The color is a bright rose-pink with a clear, creamy base. Pkt. 15c; oz. 75c.

**COLLECTION OF EARLY-FLOWERING**—Eight 15-cent packets for \$1.00, your selection of colors.

ALL PRICES ON THIS PAGE ARE POSTPAID.

## Our Superb Collection of Spencers

One pkt. each of the 12 varieties above including the *Mary Pickford*; \$1.80 value, postpaid..... **\$1.35**

*Use Mulford Culture—  
See Page 71*

## Standard Spencer Varieties

THE NEW "SPENCER" type has lovely waved fluted flowers of giant size, and in exquisite colorings, length of stem, and lasting qualities are much superior to the older types.

One package each of the (17) named varieties \$1.40, postpaid.

### PINK AND CREAM

**COUNTLESS SPENCER**—(Pink)—The first Sweet Pea of the Spencer type. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at outer edges. Pkt. 10c; oz. 30c.

**"MARGARET ATLEE"**—The most perfect of the Duplex type yet produced. Color is a warm salmon pink suffused over a cream ground. The cream deepens into a bright buff at base of standard and wings. Flowers are of very large size, almost uniformly four on a stem. Pkt. 10c; oz. 30c.

**PRIMROSE SPENCER**—Color true primrose. Very vigorous, free flowering, excels in beauty, length of stem and keeping qualities. Pkt. 10c; oz. 30c.

### ORANGE AND SALMON

**BARBARA**—A beautiful shade of orange salmon, the brilliancy of the coloring being enhanced by planting in partial shade. Pkt. 10c; oz. 30c.

**ILLUMINATOR**—A brilliant orange-salmon ground illuminated with bright cerise pink; a rare combination of great beauty. Pkt. 10c; oz. 30c.

**THOMAS STEVENSON**—Brilliant orange scarlet, standard of deeper color than wings, flowers of finest Spencer form. Pkt. 10c; oz. 30c.

### LAVENDER AND BLUE

**ASTA OHN**—Lavender, suffused with mauve; of perfect form, largest size, four blossoms on long, strong stems; very vigorous. Pkt. 10c; oz. 30c.

**FLORENCE NIGHTINGALE**—Immense, bold erect flowers of soft, rich lavender with very delicate suffusion of rose; a self-colored flower, frilled and waved; four blossoms on extra long stems. Pkt. 10c; oz. 30c.

**ORCHID**—A pleasing and impressive shade of lavender with just sufficient pink to give it warmth and softness. An exceedingly fine bloomer. Pkt. 10c; oz. 30c.

**WEDGEWOOD**—A beautiful Wedgewood blue; is large, vigorous, blooms freely and is entirely free from purple shading. Pkt. 10c; oz. 30c.

### RED AND MAROON

**FIERY CROSS**—The standard is a scorching fire-red or orange-scarlet, which scintillates and glitters in the bright sunlight with a glowing fire-like sheen that radiates over the entire flower. Pkt. 10c; oz. 30c.

**KING EDWARD**—Bright crimson scarlet, largest size, wavy standard; drooping wings, long stems; one of the finest reds. Pkt. 10c; oz. 30c.

**KING MANOEL**—Large full, wavy blossoms of dark brilliant maroon, bold and attractive. Pkt. 10c; oz. 30c.

**VERMILLION BRILLIANT**—An intense pure scarlet self-color of rare beauty and substance. Absolutely sun-proof. A stocky, vigorous grower, profuse bloomer, the long stems carry four perfect flowers. Pkt. 10c; oz. 30c.

### WHITE

**CONSTANCE HINTON**—The best black-seeded, white-flowered variety. Flowers are of large size, and come at times with a bluish tinge. Pkt. 10c; oz. 30c.

**ETTA DYKE**—White waved variety. Pkt. 10c; oz. 30c.

**WHITE SPENCER**—A pure white flower of enormous size, beautifully crinkled and fluted. Pkt. 10c; oz. 30c.

### SUPERB MIXED

(True Spencers Only)—A splendid mixture, carefully proportioned to produce harmonious combinations of color. Not seedlings, but carefully selected named varieties that retain all the purity and brilliance of color. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.75.

### GREENPOD MIXTURE

The most perfect blend of the finest named varieties it is possible to produce. This mixture contains many famous novelties, the best of Grandifloras, also standard Spencer types, and will delight the most critical. Sold in 1 oz. sealed pkts. only at 15c each.

## FLOWER SEEDS—GREENHOUSE CULTURE

**ASPARAGUS SPRENGERI**—(Emerald Feather)—One of the best of the new so-called ferns. Feathered foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Seeds should be sown under glass with night temperature of about 65 degrees. Will germinate in 4 to 6 weeks. Height 2 to 4 feet. (For plants see plant department.) Pkt. 10c; ¼ oz. 75c.

**ASPARAGUS PLUMOSUS**—(Asparagus Fern)—One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. Culture same as Sprengeri. Height 6 to 12 feet. (For plants see plant department.) Pkt. 25c; ½ oz. 95c.

**BEGONIA**—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. They are, however, difficult to grow from seeds even in a greenhouse. Generally propagated by cuttings. (See plant department.) Gracilis, Fine Mixed. Pkt. 25c.

**CALCEOLARIA**—Beautiful flowers of unique form and colors, ranging from red, yellow, brown and orange. Fine for pot culture. Should be sown in flats very thinly, covered lightly with sifted soil firmly pressed down. As soon as large enough to handle, transplant to thumb pots, shifting from size to size as they become potbound. Of little value outdoors, as the hot sun ruins the blooms.

Hybrida—Finest mixed. Pkt. 50c.

**CANNA**—(Indian Shot)—Large, ornamental, tropical-looking plants of easy culture. Soak seeds in warm water for several hours, or until they commence to swell, then plant under glass. When second leaf appears transplant into pots and keep under glass until soil outside is warm. Colors red and yellow. Height 2 to 6 feet. (For Canna bulbs see plant department.) Crozy's Best Mixed. Pkt. 10c; oz. 50c.

**COLEUS**—Probably the best known and most popular of ornamental foliage plants. Leaves of all shades and colors. Tender perennial. Sow seeds in flats indoors. Transplant seedlings to other flats until settled warm weather, then transplant to open garden. Pot for house culture before frost. Height 1 to 2 feet. Extra Choice Mixed. Pkt. 25c.

**CYCLAMEN**—Florists' pot plant. Beautiful Winter and Spring flowering plants for window and greenhouse. Giantum Hybridum—White with carmine eye, dark red, salmon-pink, rose. Pkt. 25c. Papilio Hybridum, or Butterfly Cyclamen. Pkt. 25c.

**DRACAENA**—Ornamental greenhouse plant. Very desirable. Narrow, dark foliage. Indivisia Lineata. Pkt. 10c; ¼ oz. 30c.

**GREVILLEA ROBUSTA**—(Silk Oak)—Very beautiful and graceful plant with fern-like foliage—a splendid pot plant. Sow in boxes in late Winter or early Spring, potting the seedlings when 2 to 3 inches tall. Repot frequently to maintain rapid growth. Height 2 to 4 feet. Pkt. 15c; ½ oz. 95c.

**HELIOTROPE**—Flowers in large clusters of lovely shades of blue. Delightfully fragrant and free-blooming. Splendid for bedding, pot culture or bouquets. Start under glass very early in Spring, transplanting to pots or open garden. Will bloom in 2 to 3 months.

Fine Mixed—All colors. Pkt. 10c; ½ oz. 50c.

Choicest Mixed, from new varieties. Pkt. 15c; ½ oz. 75c.

**LANTANA**—A free-flowering shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half-hardy perennial. Sow seeds thinly in boxes indoors, covering very lightly. Transplant to garden when 2 to 3 inches high. Height 1 to 2 feet.

Hybrida Fine Mixed. Pkt. 10c; ¼ oz. 20c.

**PRIMULA**—(Primrose)—Of the varieties named below some are hardy, early blooming garden plants, others beautiful Winter-blooming house plants. Soak seeds in warm water for 24 hours, then sow thinly in shallow boxes of soft sandy soil, covering lightly with sand. Press down firmly and cover with glass until through the surface. When large enough to handle transfer into boxes of fine soil. Remove to permanent location when about 2 inches high.

Polyanthus—Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed colors. Pkt. 25c; 1-16 oz. 75c.

Vulgaris—Yellow, common, English Primrose. Pkt. 25c; 1-32 oz. 75c.

**PRIMULA (Obconica Grandiflora)**—Beautiful single flowers. This is really an ever-blooming plant, producing elegant clusters of flowers continuously throughout the year. Fine mixed. Pkt. 25c; 1-64 oz. \$2.25.

**SMILAX**—(Medeola Asparagoides)—Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of pleasing light green; excellent for decoration. If grown from seeds, should be treated same as Asparagus Sprengeri. (See plants.) Pkt. 10c; ¼ oz. 20c.

See Page 54  
for Florist Supplies



# SEED GRAINS

Many varieties of grasses and forage plants offered by Eastern seedmen (often under new names) will not give profitable crops in our climate and, to avoid disappointment, we refer you to the following list, which has been carefully selected and contains the most desirable varieties.

## BARLEY

Barley is a shallow feeder, the roots growing near the surface, and requires a rich, mellow soil. Responds readily to good tillage, any extra work with disc and harrow will be amply repaid. Do not try to grow upon poor, sandy or wornout soils, or where ground is not in good condition or well drained. In rotation, Barley follows Corn, Peas, Potatoes, or any cultivated crop, and is the best nurse crop for starting clovers or mixed grasses. Should be planted late after ground is warm and Spring weather settled. Plant two bushels per acre.

**SUCCESS BEARDLESS BARLEY**—Brought out and featured by Pullman Agricultural College. Straw about height of common barley, stands up better than other varieties. Our crop this season contains no beard. We believe this variety will remain true to type, although we do not guarantee it to do so. Write for quantity prices. Price 10 lbs. 85c.

**HANNCHEN BARLEY**—Early and best of the two-rowed barleys, drought resistant and sure heavy cropper. The seed stock we offer was grown from seed secured from the Oregon Agriculture College. We call special attention to the plumpness of the seed, thinness of the hull and the ease with which the beards break off. It frequently happens that these beards drop in the field before harvest. Although a Spring Barley the U. S. Dept. of Agr. has successfully grown Hannchen Barley from Fall seeding where Winters are mild. Write for quantity prices. Price 10 lbs. postpaid \$1.00.

**COMMON BARLEY**—We always aim to have a nice, clean stock of good Seed Barley on hand at all times. This is the common 6-row bearded type. Write for quantity prices. 10 lbs. postpaid 80c.

## BUCKWHEAT

Can be easily grown wherever wheat will grow, producing a good yield even on light or poor soil and under favorable conditions is very profitable, being in big demand for milling—also the best "bee pasture." Sow 36 lbs. per acre in drills, 418 lbs. broadcast.

**COMMON**—Write for quantity prices. Postpaid, 10 lbs. \$1.15.

**SILVER HULL**—Light gray color, rounder than common; thin husk; matures earlier, yields heavily, excellent milling variety. Write for quantity prices. Postpaid, 10 lbs. \$1.15.

**JAPANESE**—Ripens early and yields the largest crops. Grains extra large, dark brown, very thin hulled, makes the highest grade flour. Write for quantity prices. Postpaid, 10 lbs. \$1.15.

## FLAX SEED

Selected, re-cleaned, Western-grown new crop, large plump seed. Write for quantity prices. Per lb., postpaid, 20c.

## WHITE HULLESS OR BALD BARLEY

—Beardless—An early Spring variety—beardless, high feeding value, said to exceed corn as a pork producer. Can be fed to all live stock—especially valuable used in a mixed ration. Grain plump, heavy and when threshed is hullless like wheat. A heavy cropper. When grown and cut for hay it produces a magnificent fodder, very rich and almost equal to a grain feed. Culture same as Common Barley. Write for quantity prices. 10 lbs. postpaid \$1.00.

## BLACK HULLESS BARLEY—Bearded—

Best of grains for feeding or fattening stock. Greater food value than corn—Will grow on dry Alkali soil where other grains fail. Sow in Fall or Spring as late as June 15, 75 to 100 lbs. per acre. Will yield as high as 75 bushels to acre, weighing about 70 lbs. to measured bushel; does not shatter or shell out easily. When planted in Fall its abnormal stooling habit and wide succulent leaves make it ideal for late Fall pasture, yielding a full crop next season. Stock prefer and thrive on it. Write for quantity prices. 10 lbs., postpaid, \$1.00.

## COW OR THOUSAND HEAD KALE

The demand for this wonderful forage plant proves it to be the most valuable green feed for Northwest dairy and stockmen; endorsed by Agriculture Colleges and Government Stations. Should be grown in same manner as cabbage. Can be set as late as July. Write for full information on Planting and Feeding.

A quarter of a pound of seed will produce enough Kale plants for one acre. Postpaid, oz. 15c; ¼ lb. 50c; lb. \$1.50.

## LENTILS—FRENCH

Excels as a food, large, smooth, light even color and very attractive. The heaviest yielding and most profitable variety to grow. Lentils can be grown wherever peas or beans can be grown and are in big demand for export. Lb. postpaid, 20c. 10 lbs. \$1.50.

## STANDARD SEED OATS

**WHITE SEED OATS**—We can supply at market prices. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for your money.

**SWEDISH RED**—A comparatively new tree Oat from Sweden, having a soft hull and fine straw which is ideal for hay. This is the oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter.

**GRAY WINTER**—Planted extensively throughout the Northwest as a Fall or Winter oat. Well and favorably known, being a good yielder, and the Oats are large and plump. Write for prices.

## SEED OATS

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit. They will mature in July from Spring sowing, giving quick returns and leaving the soil in good condition for Fall planting.

We offer select, re-cleaned, well-matured seed oats of standard varieties.

## HULLESS OATS

**HULLESS OATS**—Grows like ordinary oats with a branching head but thresh out clean, the kernel larger than common oats and ready for milling just as they come from the cleaner, retaining all their richness and flavor. You can make your own oatmeal and it will cook quicker and you will find it of superior excellence.

**HULLESS OATS** stool freely, stand up well, will thrive wherever oats can be grown. Drouth resistant, ripen in about 100 days from seeding, weigh about 54 lbs. measured bushel. Sow 40 to 50 lbs. per acre. 10 lbs., postpaid, \$1.25. Write for prices in quantities.

**"SENATOR"**—(A New Garton Side Oat)—Highly recommended for its extreme earliness and great fertility—is especially adapted to heavy land. On good land this oat will do well, where oats are liable to lodge SENATOR will stand up—has stiff straw—large grains and fine color. 10 lbs., postpaid, 75c.

## CLIMAX—TREE OAT

For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "CLIMAX" will give a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield. In our trials "CLIMAX" has not been injured by severe early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up. 10 lbs. postpaid 75c. Write for quantity prices.

## ECLIPSE—White Side Oat

A reselection from our famous "Shade-land Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thin-hulled oats of finest milling quality. The yield on light dry solid where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

Matured in 90 to 100 days, and can always be harvested before the Fall rains. Their beautiful bright color and plumpness command the top prices in the market. Try this grand new side oat. 10 lbs. postpaid, \$1.00. Write for prices in quantities.

Market changes make it impossible to quote hundred pound prices. We recommend that you send us your order, and we will give you full value for money received.

# Seed Grains—Continued

## MILLETS

Sow in April, May or June, 12 to 15 pounds for seed, or 20 to 30 pounds for hay per acre.

Prices 10 lbs. \$1.50, postpaid. Write for quantity prices.

**GERMAN OR GOLDEN**—An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common and yields a heavier crop of hay.

**EARLY FORTUNE MILLET**—Has given astonishing yields of both seed and fodder. It is very early and is claimed to be rust-proof. The fodder can be fed to horses and other stock without injury, even after the seed has formed, which cannot be done with safety with most of the millets. The seed is large and of a beautiful red color.

**NEW SIBERIAN**—New and wonderfully productive. Extremely hardy and about two weeks earlier than the German Millet, growing four feet in height.

**COMMON**—A well-known variety growing from three to four feet high; has broad blades and strong stalks.

**BROOM CORN MILLET**—Is somewhat variable in character and is divided into several varieties, one of which is sometimes called Hog Millet, as the seed is often used to feed hogs. All of this class are better adapted to produce seed than for pasture.

**WHITE WONDER MILLET**—Grows four feet tall, bearing large heads covered profusely with bristles which repel attacks by birds.

**HUNGARIAN**—A dwarf annual Millet. It is finer than the Common or German Millet, but produces a closer stand. Superior for hay.

## FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog-feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

**WHITE CANADIAN**—A leading kind; seed almost white. Per lb., postpaid, 15c.

**BLUE PRUSSIAN**—Very much like the above, except in color. This variety is largely sold dried for soup peas. Per lb., postpaid, 20c.

## RAPE, DWARF ESSEX

One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Excellent pasture for all stock, and fine green feed for chickens. Thrives on all soils and is ready for use in six to eight weeks from time of sowing. Also valuable for plowing under. Sow same as turnips from May until September, or sow with grain. Use four pounds per acre in drills, eight pounds broadcast. Price, lb. 25c, postpaid. Freight or express 10 lbs. \$2.00.

## SPELT OR EMMER

**EMMER**—(Triticum Dicoccum)—Often Mistakenly Listed as Speltz—Similar to barley in growth, but produces two grains in a spikelet. A profitable crop yielding 50 to 100 bushels of grain, or four to six tons good hay per acre. Thrives well on poor soil, and dry weather seems not to affect it. After threshing, the straw makes good feed. Sow in Spring at rate of 75 to 100 pounds per acre. We offer choice, cleaned seed. 10 lbs. 85c, postpaid. Write for quantity prices.

## SEED RYE

Spring Rye is a very important and profitable crop useful for replacing Winter grain that has failed, or planted as a soiling or grain crop is always dependable. Should be sown at the same time as other Spring grains using 50 to 70 lbs. per acre.

Price 10 pounds, postpaid, 75c. For larger quantities, write for prices.

**SPRING RYE—Bearded**—We offer a fine stock of true Spring Rye that can be planted in this section any time after the ground can be worked.

**BEARDESS SPRING RYE**—This splendid variety is extremely hardy, yields heavily and is preferred for stock feeding, as the small beards (about an inch long) mostly drop off in handling. Plant Fall or Spring.

**ROSEN RYE**—A Fall or Winter rye brought from Russia in 1909. Each head fills four complete rows of grain. The grains are much larger than of common rye and the yield double and some make it stronger and say three for one. You cannot make a mistake in trying it.

## THE NON SACCHARINE SORGHUMS

Wonderfully productive and of great value as a forage, ensilage or grain crop in dry sections.

The varieties here offered represent the best selections and are highly recommended. They are best drilled in—using 3 to 8 lbs. per acre, depending on variety and condition. Plant in the late Spring after the ground is warm. Cultivate often, throwing earth toward the plants.

**SUDAN GRASS**—The great drouth resisting forage crop—All stock relish it, and no harmful effects have followed where it has been fed. Under favorable conditions, it grows from 7 to 9 feet, having luxuriant foliage and small stems. While thriving under dry conditions, excessive moisture will not harm it, but is easily damaged by frost. Where growing conditions are favorable the stubble makes excellent green pasture. In the South three or four cuttings are not uncommon. Price, postpaid, 10 lbs. \$1.75. Write for quantity prices.

**BROOM CORN**—Dwarf Evergreen—Grows from 4 to 5 feet high and makes straw of finest quality, being almost if not entirely free from crooked brush. Per lb., postpaid, 25c; 10 lbs. \$1.50. Write for quantity prices.

**MILO MAIZE**—This is one of the sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height 4 to 7 feet. Heads are very large, giving a heavy grain yield, is drought resistant, and succeeds on alkali soil. Plant late when ground is warm, three to six pounds per acre. Per lb., postpaid, 20c; 10 lbs. \$1.25. Write for quantity prices.

**FETERITA**—This is drouth resistant and twenty to forty days earlier than Kaffir corn. Makes splendid fodder as well as giving a good grain yield. Per lb., postpaid, 20c; 10 lbs. \$1.25. Write for quantity prices.

**KAFFIR CORN**—An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high. Greatly relished by cattle and horses. The seed crop is also heavy. It does best sown in drills three feet apart. Per lb., postpaid, 20c; 10 lbs. \$1.25. Write for quantity prices.

## SEED WHEAT

Prior to the adoption of the U. S. Grain Standards the Pacific Northwest did not use the grades established by the big eastern wheat centers, but since the U. S. Standards have become effective it is impossible to market mixed varieties of wheat or other grains at the best prices, and growers will find it necessary and profitable to plant only clean, pure seeds of standard commercial varieties.

We have provided splendid stocks of the best sorts for this section and when ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest prices. The following are standard market varieties that are known as the most profitable and best yielding.

Price, 10 lbs. postpaid, 85c. Write for quantity prices. Prices subject to change without notice.

**EARLY BAART**—Bearded—Spring—A Spring wheat fully as early as Marquis, a better yielder and has a large white grain of finest milling quality. In the big wheat sections of Eastern Washington, Early Baart has matured three weeks ahead of Blue Stem, giving a bigger crop and its earliness insures protection against loss from extreme heat and drouth occurring later.

**BLUE STEM**—The best known and one of the most profitable Spring varieties for the Northwest. Heads are large and well-filled. Stools freely. Grain very hard. Although a Spring variety, can be planted as a Fall Wheat in sections where Winters are mild. The Blue Stem of the Pacific Coast has a white grain and smooth chaff, quite unlike the Velvet Chaff and Red grains of the states East of the Rockies. Better results are had with this Wheat East of the Cascade Mountains, as it has a tendency to lodge in the moist sections on the Coast.

**MARQUIS**—Spring—Marquis Wheat was produced by a cross of Red Fife and Hard Calcutta. It differs from the parent stock, Red Fife, inasmuch as it has a heavier head, shorter straw, and more flinty, very heavy, weighing about 65 pounds to the measured bushel. Heads are beardless, chaff smooth.

**FORTY FOLD**—Winter. Forty Fold is referred to as "Gold Coin" in some sections. Is quite early, seed resembling Blue Stem. A Favorite Winter variety in many localities, and in good demand for milling.

**JONES WINTER FIFE**—Jones Fife is grown extensively in the Northwest, being hardy and drouth resistant, and is considered the most valuable Winter Wheat for the dry sections of Eastern Washington and Oregon. A heavy yielder and good grower, in good demand for milling.

## SUNFLOWER

**MAMMOTH RUSSIAN**—The largest and most productive variety. Grown extensively for silage for cattle and is proving of immense value. The seed is a valuable poultry food, a great egg producer. It is usually drilled in 36-inch rows with the hills 4 inches apart in the row. In sections where the season is short it should be planted as soon as the soil is in good condition in the Spring. For silage it should be cut when 25 to 30 per cent of the plants are in bloom. In food value it is equal to corn silage and the yield 3 to 4 times as great. It has been demonstrated in many parts of the country that no other known forage plant will produce as great a tonnage of high grade food for livestock. Lb. 20c; 10 lbs. \$1.50. Write for quantity prices.

# CLOVER, ALFALFA AND VETCH SEEDS

**RED CLOVER**—(*Trifolium Pratense*)—The standard Clover for all purposes. Hardy, succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use. Per lb., postpaid, 50c. Write for quality prices.

**MAMMOTH RED CLOVER**—Grows very large and is used almost exclusively for plowing under for manure. Per lb., postpaid, 55c. Write for quantity prices.

**ALSIKE OR SWEDISH CLOVER**—(*Trifolium Hybridum*)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture. The hay is preferred to that of Red Clover, being finer, brighter and not so dusty. Per lb., postpaid, 50c. Write for quantity prices.

**SWEET OR BOKHARA CLOVER**—(*Melilotus Alba*)—(White Blossom)—Excellent for pasture hay, and a soil improver. More drought resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives best on alkali soil, and is well recommended for bees. Per lb., postpaid, 25c. Write for quantity prices.

**MELILOTUS INDICA**—(Annual Yellow Blossom)—Now recognized as the legume best adapted for green manuring in orchards because it may be planted late in the Fall after all crops have been harvested, and will grow all Winter with only the season's rainfall. Per lb. 25c; 10 lbs. \$1.75, postpaid. Write for quantity prices.

**CRIMSON OR SCARLET CLOVER**—(*Trifolium incarnatum*)—Highly recommended for pasture and fertilizing purposes. A thrifty annual, growing 20 to 30 inches high. Germinates quickly, grows rapidly, stools abundantly. Cut for hay when in full bloom. Planted in the Fall can be plowed under after blooming in the Spring, followed with barley or potatoes. Per lb., postpaid, 30c. Write for quantity prices.

**WHITE DUTCH CLOVER**—(*Trifolium repens*)—Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Per lb., postpaid, 60c; fancy 65c.

**YELLOW SWEET**—(*Melilotus Officinalis*)—In great demand on account of its earliness, being about two weeks earlier than the white. Does not grow as tall as white but makes just as good pasturage as white. Produces high quality hay. Per lb., postpaid, 35c; 10 lbs. \$2.55, postpaid. Write for quantity prices.

**HUBAM CLOVER**—(Annual Sweet Clover)—An annual white blossom sweet clover, very similar to *Melilotus Alba*. A rapid growing clover, ready for cutting four months after seeding. Makes an ideal crop for turning under or soiling in orchards. Bee men are finding ideal for bee pasture, it being available the first season. Good stock pasture. Seed 20 lbs. per acre. Per lb., postpaid, 50c; 10 lbs. \$4.15. Write for prices on larger lots.

**ESPARSETTE OR SAINFOIN**  
(*Onobrychis Sativa*.)

A deep rooting, perennial legume, extensively cultivated in dry, calcareous soils, which are too barren for Clover or Alfalfa. Sow 50 pounds per acre. Per lb., postpaid, 30c.

**HUNGARIAN VETCH**—After having been grown at the Oregon Experiment Station for the past fifteen years and by cooperating farmers for the past four years, is undoubtedly destined to become a very important annual leguminous farm crop for this state, especially the western part. Its aphid resistance is probably the largest single factor toward making it a generally grown crop in Western Oregon. During years when aphids practically destroyed many other farm crops this vetch was injured comparatively little and produced practically normal crops of forage and seeds. Hungarian Vetch is seldom attacked by diseases or insect pests. At no time since the crop has been grown here has any loss occurred due to disease or insects. Experience has shown that Hungarian is a heavier yielder in both hay and seed than any other vetches grown here, under similar conditions. 10 lbs., postpaid, \$1.25; \$7.75 per 100 lbs., F. O. B. Spokane. Write for quantity prices.

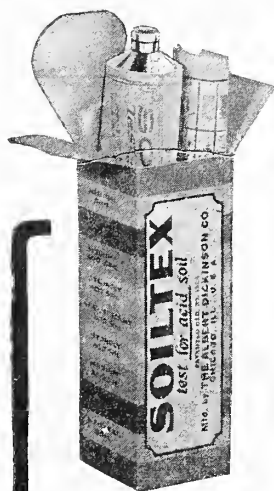
**COMMON VETCH**—(*Vicia Sativa*)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. Seed should be mixed with an equal weight

of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh seventy pounds per bushel. Sow in early Spring. 10 lbs. postpaid, \$1.00.

**WHITE SPRING OR PEARL VETCH**—Coming into great favor and being extensively used for Spring planting as splendid results can be had from sowings made as late as April. Yield is fully equal to that from common vetch (*vicia sativa*) and of fully as great feeding value. The advantage of later Spring planting makes it specially desirable and more sure to give returns than common Vetch under many planting conditions, and it has given better results on the light sandy cutover lands of Washington and Idaho. 10 lbs., postpaid, \$2.00.

**SAND or WINTER VETCHES**—(*Vicia Villosa*)—This variety thrives on poor, arid, sandy soils. Sown either in Fall or early Spring, generally mixed with rye, which serves to support the plants. Grows to a height of 6 to 8 feet, can be cut twice; first, as soon as the bloom appears, and afterwards for seed. The plant is perfectly hardy and makes a very nutritious food. 10 lbs., postpaid, \$1.75.

Prices Subject to Change without Notice.



For Lawns, Golf Courses, Vegetable and Flower Gardens, SOILTEX provides a simple and economical means of testing the acidity of the soil and determining what treatment it requires.

## SOILTEX

test for acid soil

### Does Your Soil Need Lime?

How Much Does It Need? Will it Pay?

"Lime, Legumes and Inoculation"—this has come to be the slogan of the progressive farmer who wants to grow better crops and increase the fertility of his farm. Alfalfa, Red Clover, Sweet Clover, all require lime. Most other crops are benefited by it. Lime corrects acidity, sets free plant-food, improves the texture of the soil, and is necessary to the activity of nitrogen-gathering bacteria.

Save Money by Testing Your Soil

To apply less lime than is required, or to fail to apply it when needed, means loss of fertility and poorer crops. To apply more lime than your soil needs is wasting labor and money. Either way, you save money by testing your soil and knowing exactly what treatment it requires.

SOILTEX Tells What Your Soil Needs

With Soiltex, a new quick, easy and accurate soil testing method developed at the Michigan State Agricultural College, you can determine exactly in a few minutes whether your soil is acid, and how much lime it needs. Each outfit will make 75 to 100 tests. Full directions, color chart and lime table included. No special knowledge or equipment required. Costs less than 2 cents per sample tested. Soiltex will save you money.

**SOILTEX** Pocket-size Soil Testing Outfit, with color chart and lime table. postpaid **\$1.00**

## USE MULFORD CULTURE—SEE PAGE 71

Write for prices on 100 lbs. or ton lots. They are always subject to market changes. Single pound prices postpaid.

## ALFALFA OR LUCERNE CLOVER

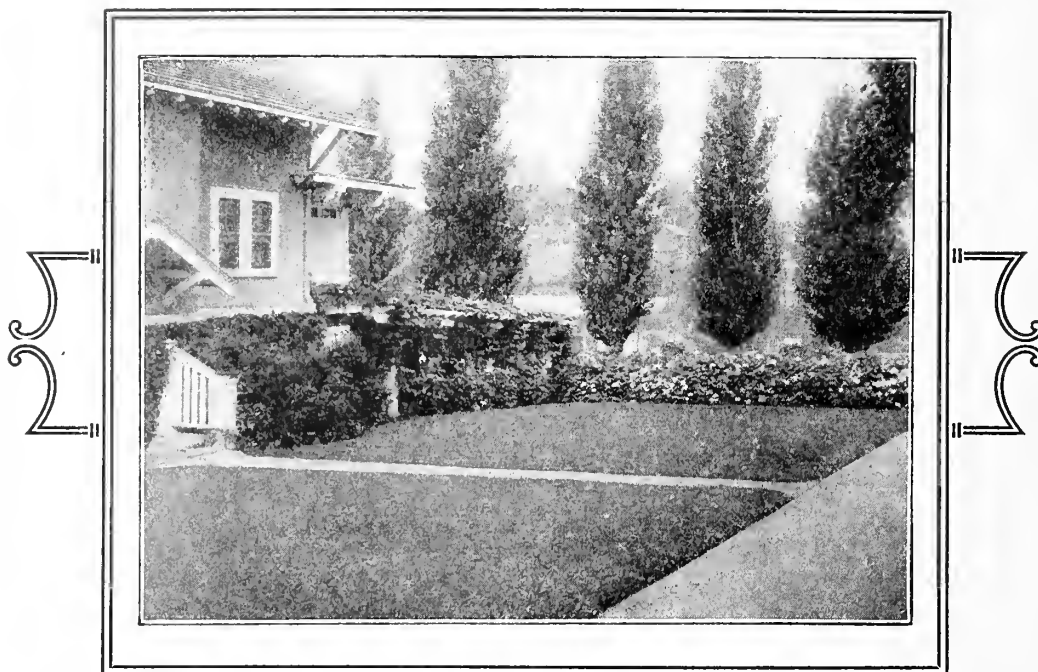
Alfalfa should be cut for hay when the shoots of the next crop appear at the base of the plants. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow and during the hottest and driest weather when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils. Its roots, in seeking moisture, penetrate to incredible depth. The seed should be sown in the Spring, after danger from freezing the young plants is over, or in the Fall, early enough to give it a good stand before frost. The domestic acclimated seed we offer can be depended upon to give splendid satisfaction.

**GRIMM ALFALFA**—(Certified)—The hardiest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardiness. Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommend its trial. Price per lb., 60c, postpaid; 10 lbs. \$5.50, postpaid. Write for quantity prices.

**DRY LAND ALFALFA**—Will produce large, profitable crops of hay and excellent pasture on the high dry lands, and is especially recommended for the hills and plateaus where irrigation is impossible. Per lb., postpaid, 35c. Write for quantity prices.

# GRASS SEEDS

## *For Lawns, Golf Links*



The choicest new crop seeds, RECLEANEED IN SPECIAL CLEANING MACHINES IN OUR OWN WAREHOUSE AND TESTED FOR PURITY AND GERMINATION IN OUR OWN LABORATORY.

Our SPECIAL MIXTURES have been carefully worked out by the tests and observations of our practical experts familiar with the requirements and conditions to be met and will give the best results possible to obtain for the uses to which they are recommended.

To have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late Spring, depending upon weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often and light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end.

### Greenpod Fancy Lawn Grass Mixture

Prepared from the choicest recleaned grass seeds, carefully selected for their fineness, their deep rooting, close growing habits and seasonable qualities; producing an ideal, dense velvety turf of lasting quality that remains green throughout the year. Sow one pound to 400 square feet. 25 lbs. to a 50 ft. lot.

1 lb., postpaid, 55c. Write for special quantity prices.

**SHADY LAWN MIXTURE**—This mixture fills a long felt want as it gives a fine, velvety turf in shady places where most grasses do not thrive. 1 lb., postpaid, 75c. Write for quantity prices.

**ROUGH STALK MEADOW GRASS**—For shady lawns, or for sowing in wood pastures. An excellent grass. 1 lb., postpaid, 85c. Write for quantity prices.

**KENTUCKY BLUE GRASS**—Used very extensively for lawns and is found in all lawn grass mixtures. A hardy grass and makes a most excellent lawn. Sow one pound to 200 square feet if used alone. 1 lb. 60c; 10 lbs. \$5.75, postpaid.

**RED OR CREEPING FESCUE**—(*Festuca rubra*)—Forms a close turf and is valuable for lawn and golf mixtures; thrives in sandy soils and along the Coast. (Fourteen pounds to the bushel.) Prices, per lb. 50c; 10 lbs. \$4.00, postpaid.

**ENGLISH RYE GRASS**—Short Seeded—For Lawns this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful. Postpaid, 10 lbs., \$2.00.

**FINE MIXED LAWN GRASS**—For use where a temporary lawn must be quickly prepared, and if kept closely cut will be lasting and handsome appearance. A good, clean mixture. 1 lb., postpaid, 50c; 10 lbs., \$4.75.

**TENNIS COURT MIXTURE**—Made up of fine, close-growing, heavily rooted grasses that make a dense lasting turf. 1 lb. postpaid, 70c. Write for quantity prices.

**IMPORTED CREEPING BENT GRASS**—Being of firm texture this Grass is most valuable for lawns and ideal for putting-greens. It is of rapid growth and spreading habit, and makes a strong, enduring turf. 1 lb., postpaid, \$1.65. Write for quantity prices.

**CHEWING FESCUE**—(*Festuca Duriuscula*)—This is a small, low growing grass, fine leaved, and forms a close turf which prevents the ingress of weeds. It is an absolutely permanent grass on all kinds of soils, even the lightest and dryest, and on dry, shingly soil it reigns alone. It is claimed that for lawns, golf links and such like it cannot be excelled if grown properly. Large quantities of this seed are imported annually, principally for golf links and lawns. Per lb. 65c; 10 lbs., \$6.00, postpaid. Write for prices on larger lots.

**MIXTURES FOR GOLF LINKS, PUTTING GREENS, FAIRWAYS**—Write for prices stating amount wanted. We make these a specialty.

**RED TOP**—(*Agrostis Palustris*)—A good perennial grass. Generally sown for permanent lawns and pastures. Does best on moist or even marshy land. If not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow twenty-eight pounds per acre unhulled seed; fourteen pounds hulled. Choice Unhulled, 10 lbs. \$2.75, postpaid.

**Fancy Hulled**—A very superior grade of Red top that is free from chaff and light seed. 10 lbs., \$4.25, postpaid.

**SWEET VERNAL**—(*Anthoxanthum odoratum*)—Valuable to put in pasture mixtures and lawn grass on account of its delightful fragrance when in bloom. Only recommended for use in mixtures. Annual, per lb. 55c, postpaid.



# GRASS SEEDS—Continued

## For Pastures and Hay

### Tall Meadow Oat Grass

#### POINTS OF MERIT

Seldom fail to get a stand of grass.  
Earliest grass to start in the spring and last to die in the fall.

Withstands drouth, heat and cold much better than other grasses.

In favorable season it will produce two crops in a year, (however, second crop does not develop seed).

First crop grows from five to six feet tall, consequently it makes an abundance of forage or pasture.

With proper care will make large annual yields for a period of from three to six years and longer.

It is a long lived, deep rooted perennial.

Can be successfully grown with red or alsike clovers and will mature for hay with these legumes.

Will grow equally well on bottom lands or upland clay soils, and because of its deep root system it does not rob the surface soil of its fertility as does timothy or orchard grass.

10 lbs., \$3.00, postpaid. Write for quantity prices.

**TIMOTHY—(Phleum pratense)**—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre. Fancy, lb., 15c; 10 lbs., \$1.45, postpaid.

**ITALIAN RYE GRASS—(Lolium italicum)**—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre. 10 lbs. \$2.25, postpaid.

**ENGLISH RYE GRASS—(Lolium perenne)**—A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. 40 pounds per acre. Prepaid, 10 lbs., \$2.00. Write for quantity prices.

**MESQUITE—(Holcus lanatus)**—It is usually sown on virgin soil without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed, hulled. 15 pounds per acre. Fancy Hulled Seed, 10 lbs., postpaid, \$3.00.

**ORCHARD GRASS—(Dactylis Glomerata)**—One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other and does best under close feeding. Sow twenty-eight pounds per acre. Fancy Eastern, per lb., 45c; 10 lbs., \$3.75, postpaid.

**KENTUCKY BLUE GRASS—(Poa Pratensis)**—One of the best grasses for permanent pastures furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow twenty-eight pounds per acre. Per lb., 60c; 10 lbs., \$5.75, postpaid.

**CANADIAN BLUE GRASS—(Poa compressa)**—Recommended in all pastures mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow twenty-eight pounds per acre. 10 lbs., postpaid, \$4.50.

**MEADOW FESCUE—(Festuca pratensis)**—Perennial; grows 3 to 4 feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre. Per lb. 35c; 10 lbs. \$2.55, postpaid. Write for quantity price.

**TALL FESCUE—(Festuca elatior)**—Succeeds best in moist alluvial and strong clayey soils; is very productive and lasting; valuable for permanent pasture, is relished by stock and on rich land makes fine hay—height 3 to 4 feet; weight 22 pounds per bushel. Per lb. 60c, postpaid.

**BROMUS INERMIS—Russian Forage Grass—Awnless Bromus Grass**—This Bromus, on account of its strong perennial character, and its unusual drouth-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle and yields from two to six tons to the acre. Sow 25 to 30 pounds per acre. Spring or Fall. 10 lbs., postpaid, \$2.75.

**BERMUDA GRASS—(Cynodon dactylon)**—Suitable only for climates where the Winters are not below the freezing point. It stands the hottest and driest season. Sow 6 lbs. per acre. Per lb. 85c, postpaid; 10 lbs. \$7.25, postpaid.

**CRESTED DOG'S TAIL—(Cynosurus cristatus)**—A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land; makes excellent sheep pasturage. Use 20 lbs. per acre if sown alone. Per lb., 90c; postpaid, 10 lbs., \$8.50.

## SPECIAL PASTURE MIXTURES

**NO. 1. FOR GOOD LOAMY SOIL**—A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre. Price, postpaid, 10 lbs. \$3.45.

**NO. 2. FOR IRRIGATED LANDS**—Use grass pastures and avoid bloat from green Alfalfa—Sow 28 pounds per acre, preferably in early Spring. As soon as well established give water as needed. With proper attention a permanent pasture can be maintained. 10 lbs., postpaid, \$3.55.

**NO. 3. FOR LIGHT SANDY SOIL**—An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years. Sow 20 pounds per acre. Prices, 10 lbs., postpaid, \$4.00.

**NO. 4. FOR DRY LAND**—Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre. Prices, 10 lbs., postpaid, \$4.00.

**NO. 8. FOR ARID OR ALKALI LAND**—Particularly for arid alkali land. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Sow 20 pounds per acre. Prices, 10 lbs., postpaid, \$3.25.

**MIXTURE FOR BURNED-OVER LAND**—In grading and cleaning grasses and clovers, we frequently find combinations that are difficult of separation and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture

mixtures suitable for sowing on burns and logged-off land, which at the price are splendid values and very economical for such purposes. Price, 100 lbs. \$16.00, f. o. b. Spokane.

**NO. 10. HAY AND PASTURE MIXTURE FOR DRY HILL LAND**—Especially suited to the dry sections, such as parts of Southern Oregon, Eastern Oregon, Eastern Washington and Idaho. This mixture is made up of varieties that can endure a great change of temperature from heat to cold, and at the same time will make a splendid mixed hay. Prices, 10 lbs., postpaid, \$3.35.

**NO. 11. FOR GRAZING PURPOSES**—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay. Prices, 10 lbs., postpaid, \$3.55.

**NO. 12. FOR BURNED-OVER BOTTOM LAND, or LAND INCLINED TO BE RATHER DAMP**—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers. Price, 10 lbs., postpaid, \$3.45.

**NO. 16.—LOWLAND PASTURE MIXTURE**—This mixture is prepared to give continuous pasture on low, moist ground. Per lb. 30c, postpaid; 10 lbs. \$2.50, postpaid; 100 lbs. \$17.50, f. o. b. Spokane.

**NO. 17. UPLAND PASTURE MIXTURE**—In selecting different varieties for this mixture we have taken those grasses which are well known for their drouth resisting, deep rooting qualities. Per lb. 30c, postpaid; 10 lbs. \$2.50, postpaid; 100 lbs. \$17.50, f. o. b. Spokane.



# BEDDING AND HOUSE PLANTS

## GERANIUMS

Geraniums are undoubtedly the most popular bedding plant of the time. Their free rapid growth and continuous blooming qualities keep them in the front rank among the long list of bedding plants. Beds of one color or variety have been very popular of late years, being very effective in all garden efforts, and for Winter flowers inside nothing is more satisfactory.

### SINGLE GERANIUMS

Each 25c; doz. \$2.50—Postage Extra.

- ALBION**—Beautiful free flowering white variety as pure as driven snow. Always in bloom.
- HALL CAINE**—Very large round florets in numerous umbels. Light rich scarlet.
- HELEN MITCHELL**—A pleasing scarlet.
- LUCILE HILL**—Long upright stems; large trusses of beautiful ruffled form; perfectly circular florets of largest size; rich salmon shaded with rose, an excellent grower.
- MRS. E. G. HILL**—Very large trusses of single florets; color clear salmon, with a white center.
- NUIT POITEVINE**—Trusses and florets of grand size; rich, rosy violet; the upper petals feathered with scarlet at their base. Very distinct and much admired.

### Pelargonium

#### Lady Washington Geranium

Price, not postpaid, each 25c; doz. \$2.50.

- EASTER GREETING**—Remarkable for its free blooming proclivities, equally as fine bedder as a pot plant. The flowers are of a fiery amaranth red, each petal distinctly blotched maroon. A novelty of the greatest merit.

### Larkspur—Delphiniums

**HARDY LARKSPUR**—One of the most beautiful and useful border plants; vigorous, free-blooming and hardy. The varieties we can supply are among the best.

Named Varieties—Fine large 2-year clumps. Each 25c; doz. \$2.50.

- BELLADONNA GRANDIFLORA**—Clear, delicate turquoise; a strong grower.
- DELPHINIUM FORMOSUM**—Dark blue with white center.
- HANS DEKKING**—Very free flowering sort, having flowers of a brilliant cornflower blue.
- KING OF DELPHINIUMS**—Giant semi-double flowers, deep blue with white eye.
- MASTERPIECE**—Lovely deep gentian-blue and plum. Reflexed flowers of immense size. Tall.
- PERFECTION**—Sky-blue petals suffused with rosy-lilac. Semi-double. Branching habit.
- PRIMROSE**—White sepals, yellow eye, single flowered.
- TRUE BLUE**—Intense deep blue with black eye. Single flowered tall sort. One of the finest.

### Nephrolepis or Boston Ferns

Price small plants, 25c; from 4 in. pots, 75c; 5 in. \$1.50, postpaid. Specimen plants, \$1.50 to \$3.00, F. O. B. Spokane.

- BOSTON FERN**—This is the original and well known type of "Sword Fern."
- SCOTT FERN**—(Nephrolepis Scottii)—Identical with the original Boston type, but is dwarfed with a more compact and bushy habit of growth.
- ORTRICH PLUME FERN**—(Nephrolepis Whitmani)—Beautiful new sport from the well known Boston Fern.
- TEDDY JUNIOR**—New Dwarf Fern. A sport from the famous Roosevelt Fern. Compact in form, and a rapid grower, producing about four times as many fronds as any other fern.

### Popular Ferns

- ASPARAGUS SPRENGERII**—(Emerald Feather)—Handsome evergreen trailing plant; its beautiful sprays of lovely green, feathery foliage can be cut freely.
- ASPARAGUS PLUMOSUS**—(Climbing Lace Fern)—A finer and more delicate plant than the Sprengerii, but hardy and easily grown.
- Nice plants, each 25c; large plants, 35c to 50c.

### Double Geraniums

Each 25c; doz. \$2.50; postage extra.

- ALPHONSE RICARD**—Immense trusses of large round flowers of the most vivid scarlet.
- BEAUTE POITEVINE**—Very large, semi-double flowers of a brilliant salmon color. One of our best sorts.
- EDMOND BLANC**—Large trusses of rich purplish violet flowers borne in greatest freedom. One of the finest dark colored sorts.
- JEAN VIAND**—Soft rose color, shaded to white. Magnificent bedder.
- MME. RECAIMER**—Snow white; strong, vigorous grower; flowers abundantly produced in large trusses.
- S. A. NUTT**—The best of the rich, dark crimson varieties; trusses massive.

### Ivy Leaved or Trailing Geraniums

Each 25c; doz. \$2.50; postage extra.

- BALLADE**—Large double flowers of a tender lilac color, feathered with crimson.
- CHARLES TURNER**—Brilliant ping, approaching scarlet. Upper petals nicely feathered maroon. Large trusses. Best of all ivy geraniums.

### Special!

#### 6 Fine Table Ferns for \$1.50

- Adiantum Cunatum**—(Maiden Hair Ferns)—A very beautiful and graceful fern.
- Aspidium Tsussimense**—Valuable for fern dishes; of graceful habit.
- Pteris Argyrea**—(The Silver Fern).
- Cyrtomium Falcatum**—(The Holly Leaved Fern)—Hardy, dark green foliage.
- Pteris Cretica Albo-Lineata**—A pretty and useful variegated variety.
- PTERIS WILSONI**—A very beautiful sort for fern dishes.

## Popular Annual Bedding Plants

Annual bedding plants are so inexpensive and satisfactory that they should be planted extensively for cut flowers in the home as well as for garden effects. They also make splendid displays in tubs and porch boxes.

We have for early delivery fine large plants that can be set as soon as weather permits and with little care will bloom freely throughout the season. Prices are prepaid.

Alyssum, doz.....	\$ .50	Clarkia, doz.....	\$ .50	Larkspur doz.....	\$ .50	Pinks doz.....	\$ .50
Asters, doz.....	.50	Cosmos, doz.....	.50	Lobelia doz.....	.50	Salpiglossis doz.....	.50
Carnations, doz.....	1.00	English Daisies, doz.....	.50	Marigold doz.....	.50	Salvia doz.....	.70
Calliopsis, doz.....	.50	Forget-Me-Not, doz.....	1.00	Mignonette doz.....	.50	Stocks doz.....	.50
Candytuft, doz.....	.50	Heliotrope doz.....	.75	Petunia doz.....	.75	Verbena doz.....	.50
Centaurea, doz.....	.50			Phlox doz.....	.50	Zinnias doz.....	.60

# Perennial Border and Bedding Plants

We offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency and the fact that they require so little care.

Plants, 25c; \$2.50 doz., F. O. B. Spokane, except where noted.

**ACONITUM (Monkshood) (Wilsoni)**—Form bushy clumps and are invaluable for planting under trees and in shady places. Large dark blue flowers 4 to 6 feet. September.

**ANCHUSA ITALICA (Dropmore)**—Stout well-balanced bushes of dark green foliage, smothered with flowers of a brilliant shade of light gentian-blue.

**ANEMONE JAPONICA (Alba)**—Among the most important hardy plants blooming in August, continuing until frost. Single white.

**Rubrum**—Single rosy red.  
**Queen Charlotte**—Very large semi-double of La France pink.

**Whirlwind**—Large double white.

**AQUILEGIA (Columbine)**—Columbines combine as many good points as any group of garden plants with handsome foliage at all seasons and beautiful flowers borne gracefully on long stems.

**Borsch's Hybrids**—Blue, white, pink, yellow and lavender combinations, mixture only.

**Chrysantha**—Long-spurred pale yellow.

**Long-Spurred Delicatissima**—Rose and yellow.

**Glandulosa Vera**—Blue and white.

**Rose Queen**—Rose, white and yellow.

**Snow Queen**—Dwarf white.

**Skinneri**—Scarlet and green.

**ASTERS (Michaelmas Daisies)**—Are among the very best hardy plants known, and for fine masses of soft coloring in the garden they have no superior. They have the merit of making soft masses of any desired height from 2 to 7 feet.

**CAMPANULA**—These combine a large range of habit and color and are perfectly hardy.

**Canterbury Bells**—In single and Cup and Saucer (Calycanthemum) pink, blue and white.

**Latifolia Macrantha**—Large purplish-blue flowers.

**Persicifolia (Peach Bells)**—The Peach-leaved Bellflower, in blue or white.

**Persicifolia Flore Plena**—The double flowering form of this beautiful flower. Guaranteed to be double flowering.

Each 30c, doz. \$3.00.

**Pyramidalis (Chimney Bellflower)**—The most conspicuous of all Campanula, forming a perfect pyramid, crowded with large salver-like porcelain blue flowers in August.

**CATANANCHE (Cupid's Dart) (Coerulea)**—Lovely blue flower with rich dark center. Very fine for cutting.

Two feet high.

**CHELONE (Barbata Hybrids) (Shell-flower)**—Brilliant red slender tubular flowers on tall erect stems, Pentstemon-like in appearance.

**COREOPSIS (Golden Star)**—Dazzling orange color, borne from early June until late Fall.

**Flora Plena**—Double-flowering.

**DEILYTRA or DICENTRA (Bleeding Heart)**—Flowers heart-shaped, in long, drooping racemes of rose-crimson. One of the prettiest of border plants. Each 50c; doz. \$5.00.

**DIGITALIS (Foxglove)**—Valuable Gloxinia-flowered plants for garden or shrubbery.

**Lilacina**—Lavender shades.

**Shirley Giant**—Extra large, in mixture only.

**DORONICUM**—One of the most effective early Spring-flowering perennials.

**DIANTHUS (Caryophyllus Fl. Pl.) (Double Clove-scented Pinks)**—A new strain, containing many fine rich colors. Can supply in mixture only.

**ECHINOPS RITRO (Globe Thistle)**—Produces large globular heads of rich blue flowers or stems 3 to 4 feet high, which can be dried, remaining attractive for a long time.

**FUNKIAS**—Very handsome and distinctive, both as to flowers and foliage. Will thrive in almost any position. Invaluable for beds, borders, rockwork and marshy ground.

**Undulata Variegata**—Leaves widely edged and striped white. Flowers blue. Each 30c; doz. \$3.00.

**GAILLARDIA**—One of the showiest hardy plants. Combination coloring of yellow, brown, crimson and orange.

**Grandiflora**—Mixed colors.

**Kermesina Splendens**—Rich crimson.

**GEUM**—Invaluable group for the rockery or border, neat habit, flowering for a long period during the Spring and Summer.

**Lady Stratheden**—Rich golden-yellow, counterpart of Mrs. Bradshaw.

**GYSOPHILIA PANICULATA**—Myriads of small white flowers on hair-like stems, forming a fairy mass, which for cutting is unsurpassed. Will thrive in any kind of soil in a sunny position.

**Flora Plena**—The double flowering form of Baby-Breath. Charming double rosette-like flowers. Limited stock. All plants guaranteed double-flowering.

**HELENIUM**—Tall growing plants, closely allied to the Sunflower, bearing in late Summer and early Fall great masses of large daisy-like flowers of yellow and orange.

**Autumnale Rubrum**—Ox-blood red changing to terra-cotta.

**Autumnale Superbum**—Deep heads of golden-yellow flowers.

**Riverton Beauty**—Pure lemon-yellow with large disc of purplish black.

**Riverton Gem**—Old gold, suffused with bright terra-cotta, changing to wall-flower-red.

**HELIANTHUS (Sunflower)**—Most effective perennial for planting among shrubbery or in clumps in the lawn.

**Maximilliana**—Latest of all, blooming profusely in October. 5 to 7 feet.

**Multiflorus Fl. Pl.**—Double, golden-yellow. Three to 4 feet.

**Rigidus Japonicus**—Very desirable variety, beginning to bloom in July. Golden-yellow with dark center. Five to 6 feet.

**Sparisoli**—The best of Summer varieties.

**HELIOPSIS**—Similar in habit to Helianthus, but commencing to bloom earlier in the season. Of dwarf habit, 3 to 4 feet. Very valuable for cutting.

**Pitcheriana**—Deep golden-yellow flower, 2 to 3 inches in diameter, very thick texture.

**Scabra Gratissima (New)**—Large semi-double flower; brilliant orange. 3 to 4 ft.

**PENTSTEMON (Barbatus Torreyi)**—Spikes of bright scarlet flowers from June till Sept.

**Shirley Giant**—Gloxinea-like flowers in varieties of color including rose, cherry, crimson, purple, etc. Can supply in mixture only. Needs protection in Winter.

**PAPAVER ORIENTALIS**—Mahony—Maroon shaded crimson; the darkest yet introduced. Guaranteed true to name.

**Perry's White**—The flowers are a fine satiny white with a crimson maroon blotch at base of each petal. Guaranteed true to name.

**PHLOX DECUSATA**—Perennial Phlox succeed in any soil enriched with manure in spring, and in hot weather an occasional soaking of water. If the first spikes of bloom are removed as soon as over, they will produce a second supply, continuing the display until late in Autumn.

**Albion**—White with faint analine-red eye.

**Champs Elisee**—Bright rosy magenta.

**Diadem**—Pure white.

**Eclair**—Rosy magenta with lighter halo.

**Europa**—White with distinct crimson eye.

**Lavender Queen**—Large spikes of purplish-lavender flowers. Will not sunburn.

**Mrs. Jenkins**—Best late white.

**R. P. Struthers**—Rosy carmine, claret-red eye.

**Selma**—Pale rose-mauve with claret eye.

**Wm. Robinson**—Pale rosy-salmon with purplish eye.

Below we list some of the newer varieties:

**Baron Von Dedem**—Scarlet, suffused orange.

**Beacon**—Brilliant cherry-red.

**Elizabeth Campbell**—Bright salmon pink with lighter shadings. One of the handsomest and most attractive of all Phloxes.

**Goliath**—Bright cerise with a deeper eye.

**PINKS**—Without the spicy fragrance of the Hardy Garden Pinks the perennial garden is incomplete. Their great fragrance and rich coloring make them great favorites.

**Napoleon III**—Double crimson. The best of its color.

**Elsie**—Double bright rose, maroon center.

**Gertrude**—Double deep rose.

**White Reserve**—An everblooming pure white.

**PYRETHRUM HYBRIDIUM (Painted or Persian Daisy)**—Perfectly hardy and invaluable as a cut flower, lasting longer in water than most other flowers. Nothing can surpass the Pyrethrum profusion of flowers throughout the entire summer from May to July. Colors range from white to crimson.

**RUDBECKIA (Purpurea) (Giant Purple Coneflower)**—Peculiar reddish-purple flowers with a very large brown cone-shaped center. July to October, 3 feet.

**Golden Glow**—One of the most popular hardy plants, growing 5 to 7 feet high, producing masses of large yellow flowers, shaped like a Cactus Dahlia.

**SHAST DAISY (Alaska)**—Immense fluffy white flowers with yellow centers.

**SCABIOSA CAUCASIA**—A soft and charming shade of lavender; commences to bloom in June, throwing stems 18 to 24 inches high until September.

**Alba**—The white form of the preceding.

**STATICE LATIFOLIA (Great Sea Lavender)**—A valuable plant, either for the border or rockery, with tufts of leathery leaves and immense candelabra-like heads of purplish-blue, minute flowers. These, if cut and dried, last in perfect condition for months.

**SWEET WILLIAM**—A fine plant which produces masses of bloom, which are lasting and fine for cutting.

**Newport Pink**—A fine watermelon-pink.

**Scarlet Beauty**—Rich deep scarlet; deep green foliage.

**TRITOMA (Red Hot Poker)**—Early perpetual-flowering Hybrids—Very free-flowering and fine range of color.

**VALERIANA OFFICINALIS (Hardy Garden Heliotrope)**—Produces showy heads of rose-tinted white flowers during June and July, with a delicious strong Heliotrope odor.

**Coccineum**—Showy heads of old rose or pink.

**Alba**—The white form of the above.

**VERBASCUM GIGANTEUM**—Foliage silvery white; flowers yellow, 5 to 7 feet.

**VERONICA**—A family containing some of the most beautiful subjects for the hardy Garden.

**Longifolia Subsessilis**—One of the handsomest blue-flowering plants. Hardy and increases in strength and beauty each year. Spikes completely studded with beautiful blue flowers July to September. 24 to 30 in.

**Spicata**—Dense tufts from which arise erect spikes of bright blue flowers. 18 inches.

**Spicata Alba**—The white flowering form.

**VIOLETS**—Owing to their fragrance and simplicity of culture, Violets have met with general favor.

**Gov. Herrick**—Rich deep purple.

**Princess of Wales**—Rich violet.

# GLADIOLI

Exquisite coloring, vigor, ease of cultivation and freedom from insect pests and diseases are making Gladioli universal favorites that should have a place in every garden. They come into bloom at a season when there are few other flowers.

**CULTURE**—Gladioli may be planted as early as the ground can be worked or as late as June. A sunny location is preferred. Plant to a depth of 3 to 6 inches, depending on the size of the bulb. Largest bulbs are not always best, as some varieties do not produce large bulbs. Any garden soil will give satisfactory results, but if well enriched, cultivated and freely watered when bulbs first show, Gladioli will amply repay you for this additional care. If cut when the first bud opens and put in water, the flowers will open perfectly, keep for many days, and colorings are richer and more delicate than if left to open on plant.



**ALICE TIPLADY**—A large flowered primulinus type. Short and stocky of growth with a most beautiful orange saffron bloom. A unique color and vigorous grower. Each 10c; doz. \$1.00.

**ANNA EBERIUS**—This variety created a sensation with growers and amateurs alike. Its coloring, growth and propagating is unexcelled. Dark velvety purple. Throat deeper shade; flowers of large spikes 3 to 4 feet high; fine, long, well-set spikes. Each 7c; doz. 75c.

**CRIMSON GLOW**—Dark, deep, rich red in color. Gives a vital touch to the garden's color scheme that would be hard to equal. A good stalk and stands well, holding its flowers a long time. Each 5c; doz. 50c.

**CHATEAU THIERRY**—Betscher—a perfect scarlet of a deep tone. Very large open flowers of the finest form and exceedingly well placed on a tall spike. Each 10c; doz. \$1.00.

**E. J. SHAYLOR**—Truly beautiful. It remains long in bloom, its several side shoots prolonging the season; sometimes for weeks. Each bulb will usually make two very tall erect flower stalks, sometimes three. In color a beautiful soft pure deep rose pink. Many wide open flowers at a time. Each 10c; doz. 1.00.

**EVELYN KIRTLAND**—A tall, slender, graceful stalk with very charming bright color pink blooms of good style and expression. It does well under good garden conditions and is a most satisfactory flower for house decoration. Better than "pink perfection." Each 15c; doz. \$1.50.

**FLORA**—Clear, light yellow, large flowers, well placed on tall, graceful stems. Each 10c; doz. \$1.00.

**GOLDEN MEASURE**—It is perhaps the best of all yellow gladioli. A very tall, vigorous stalk carrying several large, golden flowers open at a time. Stands heat very well and is a most satisfactory flower. No garden is quite complete without it. Each 7c; doz. 75c.

**GRETCHEN ZANG**—Large bright flesh pink with large deep rosy pink blotch in throat. Late bloomer. Each 7c; doz. 75c.

**HALLEY**—Salmon pink with creamy white blotch. Large flower and early bloomer. Each 5c; doz. 50c.

**HERADA**—To all who love a pure mauve this will prove a joy. On a graceful stem several wide open blooms of this rare and charming color make a place for itself in any garden. Each 7c; doz. 70c.

**LE MARCHAL FOCH**—An importation from Holland under special permit of the U. S. Government Department of Agriculture. In color a delicate pink; in size very large. Many flowers open at a time. Each 7c; doz. 70c.

**LILY WHITE**—Nicely formed flower of medium size well arranged on a tall, graceful stalk. Nearly pure white with delicate lavender coloring in throat. One of the earliest gladioli. Very vigorous grower. Each 10c; doz. \$1.00.

**MONA LISA**—Large wide clear toned flower of most refined lilac or light lavender. Self colored and slightly ruffled. A real beauty. Each 15c; doz. \$1.50.

**MRS. FRANCIS KING**—Bright red, deeper throat markings, tall slender spike. Great favorite. Each 5c; doz. 50c.

**MRS. FRANK PENDLETON**—On a ground of purest white, a cool, bright, clear, rose pink covers all its wide open petals. The lower petals have a dash of crimson blended in perfect harmony with the delicate pink color scheme. Give fresh water every morning and they bloom for days as finely as in the garden. Each 10c; doz. \$1.00.

**MRS. DR. NORTON**—A very choice cream and pink. Winner at flower shows. A tall, erect, straight stem with flowers well placed so that the beauty of each flower stands out in a distinct way all its own. The combination of color in this variety is exceedingly attractive. It is particularly beautiful in artificial light. Each 15c; doz. \$1.50.

**MYRTLE**—Very delicate arbutus pink. One of the most beautiful pink glads ever originated. Flower and stalk small but of wonderful beauty. Each 10c; doz. \$1.00.

**ORANGE GLORY**—A wonderful orange color with throat shading lighter. Each 10c; Doz. \$1.00.

**PANAMA**—A new seedling of America. Identical except in color, which is much deeper pink. Spike long and the large flowers are well arranged. Each 7c; doz. 75c.

**PEACE**—Very popular, extensively planted. Large, stately white flowers with lilac feathering in the throat; well placed on graceful spikes. Each 5c; doz. 50c; 100, \$3.00.

**PRINCE OF WALES**—As popular as the fine young man whose title it bears. A clear, light salmon in color. A very early variety and very valuable for house decoration. This is one that we highly recommend. You make no mistake in buying it. Each, 15c; doz. \$1.50.

**RED CANNA**—A dark rich red. Spike tall and straight. 10c.

**ROSE GLORY**—A very large and beautiful ruffled variety. Purest rose-pink color. Deeper in throat. Extra fine. Winner of hundreds of awards. Each 10c; doz. \$1.00.

**ROEM VAN KENNERMERLAND**—Immense, wide open flowers of rich rose pink, with a cream throat. Grand new sort of greatest merit. Each 7c; doz. 70c.

**SALMON BEAUTY**—Very large flowered primulinus, deep salmon; rich salmon-yellow throat. Each 7c; doz. 70c.

**SCARLANO**—Bright scarlet with deep dark red blotch in throat. Nicely ruffled. Each 10c; doz. \$1.00.

**SCHWABEN**—Large flowers of clear canary yellow with magenta line in throat. Very vigorous grower. Each 5c; doz. 50c.

**WAR**—A deep, rich, velvety crimson self color. Many consider "War" the most striking Gladiolus ever produced. Our stock is extra fine, and every one should plant it. Each 10c; doz. \$1.00.

**WILBRINK**—Wonderfully delicate. A large flower of light lavender pink, with deeper lines in the throat. Each 5c; doz. 50c.

**WILLIS E. FRYER**—Very large, massive, deep violet. Beautiful throat. Extra fine. Illustrated on page 28. Each 10c; doz. \$1.00.

**PRIMULINUS HYBRIDS**—A beautiful new race of Gladioli; dainty and graceful flowers in various brilliant shades. Each 5c; doz. 50c.

**GLADIOLI, FINE MIXED**—A large variety of fine flowers unequalled for the price. Each 4c; doz. 35c; 100, \$2.00.

Prices on above are for

**FIRST SIZE BULBS**

If quantities are wanted write for  
**Special Prices**

# DAHLIAS



**CULTURE**—DAHLIAS will grow to perfection in any good garden soil, preferably one that contains a little sand. Plant as soon as frost is gone and ground warm, cutting tuber to a single strong eye, placing it on its side at a depth of about 6 inches, in ground that has been well cultivated. An excellent way to start Dahlias is to sprout tubers in green house and set out the rotted plants. Rows should be 4 feet apart, plant 18 inches to 3 feet apart in the row, depending on whether for a hedge or specimen plants. Cultivate thoroughly until ready to bloom, then deep tillage must cease and only the surface be lightly stirred, as deep cultivation at this time is fatal to blooming. Tall varieties should be staked. If you use commercial fertilizer, do not apply until plant starts growth, then work into top soil, 5 or 6 inches from plant. Bone meal is an excellent fertilizer for Dahlias but must be applied early, as it is slow in action. When the plant is well up, say 6 to 10 inches, pinch off top, leaving 2 or 3 joints. This will cause it to branch out into a more sturdy, bushy growth. Water freely.

**NOTE**—In this locality we recommend planting about the middle of April and shipment of bulbs will be made the latter part of March, that we may be better able to ship only bulbs with good eyes. Do not delay your order for some of those listed are in short supply.

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The letter following name of Dahlia denotes the class, viz. (C)-Cactus. (D)-Decorative. (HC)-Hybrid Cactus. (P)-Paeony-flowered. (S)-Show.

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**BREAK O'DAY, H-C**—A strong, vigorous grower and a free bloomer. A delicate, clear sulphur yellow tinted to sulphur white at the tips. The flowers are of great substance, illuminated by a satiny sheen, giving the flowers a waxy appearance. Price, 50c.

**CHIEF SEATTLE—(P)** An immense flower on long strong stems. Color is a most delicate shade of shell pink, particularly beautiful. Plant a very tall grower. 50c each.

**DEE LIGHTED—(S)** Very large, pure white combining many good qualities. A strong, erect grower, producing immense pure white flowers in abundance. A first-class white. 35c each.

**DELICE—(D)** Its beautiful soft, yet lively color, a pleasing rose-pink, together with its perfect shape, stiff stems, which hold the flowers well above the foliage, good for cutting. 25c each.

**DELLA V. POTTER—(D)** A pleasing shade of lavender, part of the flowers coming with white tips; the flowers are very large and beautifully formed. An extra fine variety for the garden or exhibition. Medium size. 50c each.

**D. M. MOORE—(S)** One of the best nearly black varieties to date. It is a rich, deep, velvety Victoria-lake, which is a shade deeper than deep maroon. The gigantic flowers are borne on long wiry stems, it produces its flowers freely. 50c each.

**DOAZON—(D)** An immense flower with broad, flat petals and full to the center. Grows very tall. One of the good old varieties. 25c each.

**EARL WILLIAMS, DEC.**—Giant flowering dahlia, color of a brilliant crimson and white, well distributed. Free bloomer. One of the finest and most attractive dahlias ever introduced. Price, \$2.00.

**GEISHA—(P)** Golden yellow changing to red and again to yellow tips. A sure blomer and most popular, 8 to 10 in. across. Always scarce; in great demand. Price, 50c.

**GLADYS SHERWOOD, H-C**—An immense pure white blossom, deep and full, held very erect on splendid stems. A most popular white. Price, \$1.00.

**GOLDEN WEST—(Cactus.)** A superb flower of exceptional size, often 7 inches across. Stems long and rigid, holding the flower to full view. Color, golden yellow shaded to pure yellow in center. Has no superior. 50c each.

**J. H. JACKSON—(C)** A popular dark variety that is always in demand. Color a deep rich velvety crimson. One of the best garden Dahlias, blooming abundantly from early in the season until taken by frost. Large and free. 25c each.

**JUSTICE BAILEY—(HC)** The plant is dwarf in habit, attaining a height of 3 to 3½ feet, but with many side branches which later are almost covered with large, perfect blooms. Color rich, glowing pink, shading a little lighter towards the center. Always full and perfect in form. 50c each.

**JACK LONDON—(D)** Strong, erect grower; stems are long and very stiff. The blooms are large and are held upright. The color is a distinct, dazzling vermillion scarlet, deepening in the center. Very attractive. Each 75c.

**KALIF, H-C**—Its brilliant pure scarlet color and strong stout stems make it one of the most useful dahlias, both for cutting and exhibition. Price, 50c.

**KING OF SHOWS—(S)** Deep butter yellow of a solid color throughout. Every petal is most perfectly quilled and uniquely formed. A mammoth flower on long stems. It is a fine Show Dahlia. 50c each.

**LA GLORIETTA—(P)** Yellow at base, shading to a beautiful rosy pink shade; the flowers are enormous in size; the habit is pendant; nevertheless we consider this the most beautiful Paeony Dahlia we have seen. It will surely attract attention in any collection. 75c each.

**LA GRAND MANITOU—(D)** A variegated Dahlia of the decorative type. The flowers are 5 to 6 inches across, the ground color is white, spotted and striped, blotched and suffused with reddish violet. Very attractive. Each 35c.

**ADMIRAL DEWEY—(P)** Crushed strawberry, canary, yellow at base, slightly clouded through center yellow. Tips yellow. A very large, full flower on long stem. 35c each.

**AMUN RA—(D)** Originated and introduced by Jessie Seal. This fact in itself is the highest guarantee. A mammoth decorative Dahlia borne on stout stems of good length. The flowers are gorgeous. In color a combination of copper, orange and golden bronze. Highly recommended. \$1.00 each.

**BRIDE'S BOUQUET—(C)** This is a good white Cactus, an early and profuse bloomer. Flowers are of perfect form. Medium to large in size. 50c each.

**ATTRACTION, H-C**—A large, elegant flower of a clear lilac rose, borne on long stiff stems and a dahlia of exceptional merit. Always in demand as a cut flower. Price 50c.

**ANNE SLOCOMB—(P)** Its face is entirely of a bright, pleasing canary yellow, but the entire back of the petals is covered with a dull shade of salmon-red streaked with yellow. It is very striking and when held to view one might think it was tipped salmon red. It has good stems. An extra fine variety. 75c each.

**BEN WILSON—(D)** A grand new variety of large size with excellent stems. Color is a bright buff, heavily shaded with rich red and also tipped with yellow. Very attractive as a garden plant or on exhibition. \$1.00 each.

**BILLIONAIRE—(P)** One of the largest dahlias. Color is bright golden orange. Long, graceful stems. Very showy color. 50c each.

## Dahlias—Continued

**LAVERNE—(P)** A giant flowering Dahlia. Extra long stems. Color a pleasing shade of yellow. Very attractive. 35c each.

**MARIPOSA—(HC)** A perfectly formed hybrid type, composed of long, narrow incurved petals which twist and curl so they baffle a photographer. A delightful shade of true pink which is intensified by a deeper colored center. A faint violet suffusion adds to the effect. One of the gigantic California introductions which has depth as well as diameter. \$3.50 each.

**MILLIONAIRE, DEC.**—A giant lavender shading to white at center. One of the largest dahlias in existence. Very popular and in great demand. Price, \$1.00.

**MRS. ETHEL F. T. SMITH, H. C. (B)**—Creamy white shading to a lemon tint in center, produces flowers up to 10½ inches in diameter without disbudding, the flowers are held far above the foliage on strong stems. Won first prize at Oakland, California, for largest flower in show. Height, 5 feet. 75c.

**MRS. CARL SALBACH, DEC.**—An immense bloom of a lovely, mauve pink, shading lighter to the center and every petal outlined in deep mauve. The stems are extremely long and strong, holding this immense blossom proudly erect above a tall, vigorous plant. A most valuable and useful exhibition and cut flower variety. Price 75c.

**MRS. EDNA SPENCER, C.**—An exceptionally fine variety for all purposes. Large size, fine form and, above all, a free bloomer on long, erect stems. Color, silvery, lilac, shading to bright orchid pink. Price 75c.

**MRS. F. C. BURNS—(D)** A very striking shell-pink decorative which is good for all purposes. The plants are vigorous and prolific bloomers. Flowers well formed and supported on good strong stems. 50c each.

**MRS. I. DE VER WARNER, DEC.**—This variety immediately attracts attention wherever grown, for its charming color, large blooms and very long, strong, wiry stems. It is

a refined, deep mauve pink, beautifully formed, exquisite shade, and acknowledged by all dahlia experts who have had the pleasure of growing it to be one of the finest dahlias ever produced. Grows well in any soil or climate. See illustration on page one. Price \$1.

**MRS. R. R. STRANGE—(D)** Burnished copper, faintly tinted old rose. An ideal autumn tint, and a very good cut flower. 75c each.

**NEW MOON—(HC)** Large, attractive, clear yellow, generally heavily tipped pure white. A very free bloomer on stout, straight stems. One of the most attractive yellows. 75c each.

**PACIFIC GLOW—(P)** An extra large new variety of a pleasing salmon pink shade. Strong growing and free flowering. \$1.00 each.

**PRIDE OF CALIFORNIA—(D)**—Giant, rich crimson flowers on long, very stout stems. Strong, healthy grower, free bloomer and a splendid keeper when cut. 50c.

**RIESE VON STUTGART—(D)** A gigantic flower. Deep purple red, very attractive. Robust in habit. 50c each.

**SNOWDRIFT, DEC.**—Pure white, full deep built flower with broad petals. Low bush. One of the best white decoratives. Price 75c.

**THE N. C. 4—(D)** This wonderful Dahlia is hard to describe, the color is about equally divided with scarlet and white. The florets are more or less striped the whole length with yellow and white, while some are slightly clouded with yellow and tipped with light cream. The reverse side of the petals is white with yellow shadings. The whole flower is simply beautiful and unusually attractive. 50c each.

**TOM LUNDY—(HC)**—Dark rich crimson flower of Hybrid-cactus type, but sometimes reverts to paeony. Petals long, narrow and flat, in great numbers, giving a large, massive flower. 50c each.

**W. T. MacFARLANE—(P.)**—Bright cardinal, heavily clouded yellow at base of petals. Extra long, stiff

stems, and good size. A splendid Dahlia for show and bouquet effects. Very desirable. Price 50c.

**WM. H. SLOCOMBE—(D.)**—This is a beautiful canary-yellow of splendid form. Flowers very large. A very free and continuous bloomer. Should be in every collection. Each 75c.

**WHITE CAP—(P)** Pure white with broad, flat pleats of a glittering appearance. This dahlia is large and possesses qualities of great merit for house decorations, in bunches or vases. 35c each.

**WYVERN—(D)** A very beautiful, soft, silvery mauve on good stems. Plants have fine habit and are profuse bloomers. A new and striking type of decorative. 50c each.

## Pom Pon Dahlias

**ADRIENNE**—Scarlet slightly tipped yellow. Each 25c.

**ALEX**—Light cerise, faintly tipped silver. Each 25c.

**AMBER QUEEN**—Rich clear amber, shaded apricot; free flowering. Each 25c.

**BELLE OF SPRINGFIELD**—The smallest dahlia grown; bright brick red; profuse bloomer. Each 15c.

**CATHERINE**—Bright yellow. Each 15c.

**DARKEST OF ALL**—Dark maroon, almost black. Each 15c.

**GEO. BRINKMAN**—Pure white. Each 25c.

**GEO. IRELAND**—A dainty mauve color. Each 15c.

**GIRLIE**—Pretty rosy mauve; small, neat flowers on long stems. Each 25c.

**GOLDEN QUEEN**—A beautiful bright yellow. Each 25c.

**KLEIN GRETCHEN**—White, heavily flushed with carmine. Each 25c.

**LITTLE BELLE**—Beautiful clear mauve pink. Each 20c.

**LITTLE JENNIE**—Pretty little primrose yellow. Each 25c.

**MAID OF ALL WORK**—Small pure white, long stems, free bloomer, splendid for decoration. Each 20c.

**ORANGE**—New. Deep orange shade; extra fine stems. Each 35c.

**PRIDE**—New. Dark crimson-scarlet; very free flowering; extra fine. Each 25c.

**PRINCE CHARMING**—Lavender shades, touched with violet and deep rose. Each 25c.

**SPY**—New. Bright shade of light scarlet; very showy. Each 30c.

## HIGH GRADE DAHLIA TUBERS

### At Low Cost

In the caring of our stock from time of harvest until divisions are made many tags become lost. We are offering a mixture that contains nothing but high grade stock.

Each 15c; doz. \$1.80; add postage.

## DAHLIA PLANTS

We have a fine stock of seedling plants grown from a select strain of seed. Many High Grade Varieties of new distinction have been found in this stock.

Choice plants supplied in April and May.

Doz. 60c.

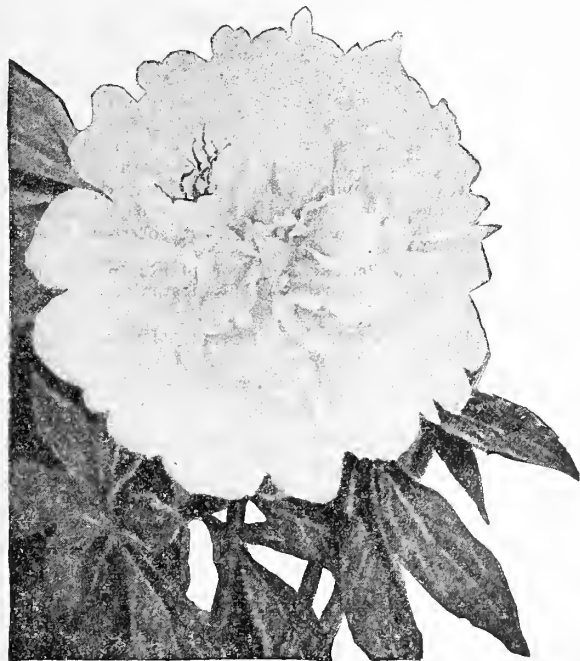
100 \$4.00 postpaid.



# PEONIES

The demand for the Peony increases more each year, closely rivaling the rise in size, color and fragrance. They make a gorgeous display wherever planted, succeeding in any soil or climate, but thrive best in deep, rich, well-drained loam. Peonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of the lawn.

PRICES: F. O. B. Spokane; if mailed, postage extra.



**APPLE BLOSSOM**—Guard petals white and light pink, like an apple blossom. An early and free bloomer. Each 75c.

**ASA GRAY**—Very large. Semi-double. Pale to deep lilac. Mid season. Each \$1.00.

**AVALANCHE**—Very large and full, milky white. Strong grower, fragrant. Mid season. Each \$1.00.

**BARONESS SCHROEDER**—Large, globular, rose type. Flesh-white. Very fragrant. Mid season. Each \$2.00.

**COURONNE D'OR**—Superb white flower; immense size, reflects yellow, center petals bordered carmine, fragrant, vigorous; late. Each \$1.00.

**DELACHEI**—Large, full flower of a deep rich crimson, purplish tone; very fragrant; medium to late. Each 75c.

**DELICATISSIMA**—Light rosy apricot, sometimes margined carmine red. Mid season. Each 75c.

**DOCTOR BRETONNEAU**—A delicate lilac pink, vigorous grower and free bloomer. Fragrant. Above medium size, bomb-shaped blossom. Each 75c.

**DORCHESTER**—Large, compact rose type. Pale hydrangea-pink. Late. Each 65c.

**DUC DE WELLINGTON**—Large, bomb, with white guards and sulphur center. Fragrant. Late. Each 50c.

**DUCHESS DE NEMOURS**—Medium size. Pure white crown, sulphur-white collar, no crimson flecks. Fragrant. Early. Each 75c.

**DUKE OF DEVONSHIRE**—Very large, medium light pink, shaded to deep rose, with wide outer petals. Each \$1.00.

**EDULUS SUPERBA**—Rose pink, delightfully fragrant. An early bloomer, ready for Decoration Day. Each 60c.

**EUGENE VERDIER**—Very large, light rose, shaded salmon, full sweetly scented, distinct from Eugenia Verdier. Late. Each \$1.00.

**FELIX CROUSSE**—Full double, flaming red, good bloomer. Mid season. Each 90c.

**FESTIVA MAXIMA**—Immense double flowers, pure white tipped or flaked with a small crimson spot at center. Early. Each 75c.

**FLORAL TREASURE**—Large, pale lilac-rose, good for cutting. Mid season. Each 50c.

**FRAGRANS**—Late; color deep rose; fragrant prolific bloomer; tall grower. Each 75c.

**GLOIRE D'BOSKOOP**—Large globular flower of rich pink shading to lilac. Mid season. Each \$1.00.

**GLORY OF SOMERSET**—Large, bomb type. Beautiful soft pink. Fragrant. Mid season. Each \$1.00.

**JENNY LIND**—Large, bomb type. Hydrangea pink. Fragrant. Mid season. Each \$1.00.

**KARL ROSENFELD**—Very large, globular, compact, semi-rose type. Dark crimson. A very brilliant and striking variety. Slightly fragrant. Mid season. Each \$2.00.

**LA MARTINE**—Large rose type, carmine rose bordered silvery white. Late. Each 75c.

**LA TULIPE**—Medium large. Lilac white fading to creamy white with outer guard petals striped and center petals tipped with outer carmine. Late. Each 75c.

**L'ECLÉANTE**—Bomb type, mid season. Flowers very double and full, color deep, brilliant, velvety crimson. Each \$1.00.

**L'INDISPENSABLE**—Full globular rose type. Lilac-white. Bud slow to open. Late midseason. Each \$1.00.

## Color Classification of Peonies

Gorgeous effects and a wide range of color combinations are possible to peony growers.

The double peonies may be conveniently divided into four dominant colors as shown in the illustration: White, light pink, dark pink, and red.

It is advisable, when planting, to consider the color effects during the blooming season. Arrange them with a distinct picture in your mind's eye, plan for an effect wisely. The result will justify your care.

## Descriptions

**Semi-double**—Having several rows of wide petals with the center loosely intermixed with stamens and petals.

**Crown**—Having wide petals in the center with a choker of narrow, short petals, enriching same, and an outer row of large guard petals.

**Bomb**—All center petals of uniform width, forming a globe inclosed to a row of large guard petals.

**Semi-rose**—Petals all uniformly wide, interspersed with a few pollen-bearing stamens.

**Rose**—A perfect full rose shape with no stamens.

**MADAM CROUSSE**—Medium size, globular, crown. Pure white, center flecked crimson. Mid season. Each \$1.00.

**MADAME CALOT**—Large, rose type. Pale hydrangea-pink; fragrant; early. Each \$1.00.

**MADAME LEBON**—Large, compact, globular rose type. Cherry pink to aniline red. Buds tight, opening slowly. Late. Each \$1.00.

**MAD. BREON**—Flowers outside flesh, center lemon, occasionally carmine tipped when first open; entire flower gradually changing to pure white. Early. Each 75c.

**MAD. DE VERNEVILLE**—Broad outside petals, sulphur white, with center rosy white, sometimes edged carmine, and beautifully imbricated. Early. Each \$1.00.

**MARECHAL VAILLANT**—Enormous, dark mauve pink, very tall; very late. Each \$1.00.

**MARIE JACQUIN**—Rose-white, fading to lilac-white; wide incurved petals, showing an open center filled with yellow stamens like a water lily. Mid season. Each \$1.00.

**MARIE LEMOINE**—Large, compact, rose type flower. Pure creamy white. Late. Each \$1.00.

**MARIE STUART**—Very early; soft pink with lighter center. Anemone shaped flowers. Each 75c.

**MODELE DE PERFECTION**—Large, compact, rose type. Guards and collar light violet-rose, high center petals shaded darker. Late. Each \$1.00.

**MONSIEUR JULES ELIE**—Bomb type, pale lilac-rose shading lighter. Early. Each \$1.00.

**MODESTE GUERIN**—Medium bomb type. Solferino red, good for cutting. Mid season. Each \$1.00.

**MONSIEUR KRELAGE**—Dark Solferino red, with silvery tips; slightly fragrant; large compact, flat flower; a free bloomer and erect grower; 30 to 33 inches high. Early. Each \$1.00.

**MME. DUCEL**—Immense, globular, typical bomb, light mauve rose, with silvery reflex fragrant, vigorous, free bloomer. Each \$1.00.

**MME. GEISSLER**—Enormous, compact, globular, rose type bloom, violet rose, tipped silver, fragrant, spreading habit. Mid season. Each \$1.00.

**OFFICINALIS ALBA**—Blooms with Officinalis Rubra. Light pink at first, fading to white as flowers grow older. Each 60c.

**OFFICINALIS ROSEA**—Beautiful bright pink globular flowers, blooms with Officinalis Alba and Rubra, producing fine flowers for Decoration Day. Each 60c.

**OFFICINALIS RUBRA**—Bright scarlet crimson, double and globular. Early. Each 60c.

**POTTEN'S ROSEA**—Rich deep rose, lighter center. Each 60c.

**QUEEN'S PERFECTION**—Creamy white, large, full and attractive. Early. Each 60c.

**QUEEN VICTORIA**—A full, strong, white with yellowish-tinted center; very popular. Each 60c.

**RACHEL**—Dark vivid red, with a few gold stamens mixed in corolla. Late. Each \$1.00.

**REINE HORTENSE (PRES. TAFT)**—One of the finest varieties. Color delicate hydrangea pink with center flecked crimson. A tall grower with stiff stems. Semi-rose type. Each \$2.50.

**RUBRA SUPERBA**—Deep carmine crimson, shading to violet. Very large and double. Very late. Each \$1.00.

**RUTH BRAND**—Large compact bomb, uniform lavender pink; fragrant. Each \$3.00.

**SARAH BERNHARDT**—Flower of very beautiful semi-rose type, large overlapping petals. Deep pink. Late and of a free blooming type. Each \$3.00.

**THERESE**—Rose type. Delicate satiny pink colored flower of very large size. Free bloomer on stout stems. The finest peony of its type and color. Each \$6.00.

**VICTOR HUGO**—Bomb type. Brilliant carmine-red. Each \$1.00.

# LILIES

After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements, and once established, they rival the famous product of Japan.

Planted outdoors during the fall or early spring they flower each year from June to October. We have selected the finest types that bloom freely and in the various kinds listed below you will find Lilies suitable for every purpose.

## Oregon Lilies

**WASHINGTONIANUM** (Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large of open form, white, tinted with lilac, grows 3 to 5 feet high; very fragrant. Choice bulbs, each 30c; doz. \$3.00.

**LILIUM REGALE** (Myriophyllum)—The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. The color is white, the outer petals shaded in varying amount with pink, the throat suffused primrose-yellow, and fragrant. Each 50c; doz. \$5.00.

## Lilium Formosum

**LILIUM FORMOSUM** is the best of the Longiflorums being early free blooming, healthy and vigorous, but for best results should not be planted earlier than November for Easter blooming. Our stock is of the best quality and is ready for delivery in November. Mammoth bulbs, each 30c; doz. \$3.00. Large bulbs, each 25c; doz. \$2.75.

## Lilium Auratum

(GOLDEN BANDED LILY)

The handsomest and best known of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson pods, while in the center of each petal is a gold band fading at its edges into white; very fragrant. They bloom from June to October. Large bulbs, each 25c; doz. \$2.75.

## Lilium Longiflorum

(Giganteum)—Of grand size and substance; especially fine for open ground. Plant in early December for Easter blooming. Mammoth bulbs, each 35c; doz. \$3.50. Large bulbs, each 30c; doz. \$3.00.

## Tiger Lilies

**TIGRINUM SPLENDENS** (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer. Large bulbs, each 20c; doz. \$2.00.

## Lily of the Valley

One of the most satisfactory and charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. They thrive in any common soil, are perfectly hardy, and will succeed in shady location. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting.

Selected Clumps, for outdoor growing. Each 25c.

## Lilium Speciosum

No words can overstate the brilliant beauty of this charming class. One of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

**SPECIOSUM ALBUM**—Pure white, flowers freely. Large bulbs, each 30c; doz. \$3.00.

**SPECIOSUM MELPOMENE**—Has deep carmine flowers spotted blood red. Each 25c; doz. \$2.75.

**SPECIOSUM RUBRUM**—White with dark rose spots. The most popular of the speciosum varieties. Hardy, vigorous, and free bloomer. Large bulbs, each 25c; doz. 75c.

## Lilium Canidum

This is the ever popular, fragrant, snow white, hardy garden Lily. It grows four to five feet high and blooms in the open ground in June. Our stock is imported from the Azores, the finest obtainable; should be planted early. Each 30c; doz. \$3.00.

## Calla Lilies

**CALLA (Ethiopa)**—Lily of the Nile)—An old and well known house plant; white, trumpet-shaped flowers. Bulbs 20c each; \$2.00 doz.

**CALLA (New Godfrey)**—This new variety gives three flowers to one of the older variety. Flowers snow white and perfect in form. Blooms on very small plants. Bulbs 25c each; \$2.50 doz.

**CALLA (Elliotana)**—Immense yellow trumpet-shaped flowers. Green leaves, finely mottled white. Bulbs 35c each; \$3.75 doz.

## CANNAS

Cannas require a rich, moist soil and should not be planted until all danger of frost is past. They are quick growers and the new flowering sorts bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and the varieties offered are equally valuable for the beauty of their bloom.

Prices: Bulbs or plants in season, each 30c; doz. \$3.00, postpaid.

**CITY OF PORTLAND**—A magnificent "Testout" pink with salmon suffusion. Luxuriant green foliage, very vigorous and hardy.

**BUTTERCUP**—Pure bright yellow, Green foliage.

**FIREBIRD**—New. Considered the best red-flowered, green-leaved Canna. Flowers are fiery, bright red, borne in immense trusses. Height 4 feet.

**KING HUMBERT**—The mammoth flowers are a brilliant orange-scarlet, with bright red markings, foliage is broad and of a rich coppery bronze with brownish green markings; 5 to 6 feet.

**PANAMA**—Rich orange, red yellow edge. Flowers immense size; 3 feet.

**MRS. ALFRED F. CONARD**—Superb salmon pink flowers of large size, freely produced, very luxuriant green foliage; height about 4 feet.

**WINTZER'S COLOSSAL**—Without doubt the largest flowering Canna, the blooms measuring 8 inches across. Flowers are an intense vivid scarlet of the orchid flowering type. Foliage green; 5 to 6 feet.

**WYOMING**—Massive orange colored flowers of orchid shape with bronzy-purple foliage. Height 7 feet.

**YELLOW KING HUMBERT**—Identical with King Humbert in habit of growth. Beautiful yellow flowers dotted with red. Foliage green. Height 5 feet.

## HARDY IRIS

Popularly known as German, Liberty, bearded and Fleur de Lis Iris also Flag Lilies. They are hardy, easily grown, free flowering and drouth-resisting.

**CAPRICE**—Rose, with base a deeper rose red.

**DARIUS**—Light yellow, margined lilac.

**DR. BERNICE**—Coppery bronze with crimson edge.

**HER MAJESTY**—Bright crimson tinged darker shade.

**LIBERTY**—Bright azure blue, superior to Pallida Dalmatica. Grows three to five feet high.

**LOHENGRIN**—Cattleya, rose, graceful large flower.

**LORELEY**—Ultra-marine blue, bordered cream.

**MADAM CHEREAU**—White, with border of clear blue.

**MONTEZUMA**—Yellow and white veined purple dotted brown.

**MONSIGNOR**—Rich crimson edged lavender. Beautiful.

**NIBELUNGEN**—Olive green, base yellow, purple and white.

**PERFECTION**—S. Light blue. Falls velvety purple black, with conspicuous orange beard.

**PRINCESS VICTORIA LOUISE**—Pale yellow, base rich violet, edged cream, very attractive.

**PURPLE PRINCE**—Violet blue, falls dark purple.

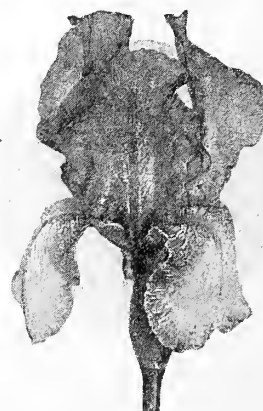
**SHERWIN WRIGHT**—A fine golden yellow sort. As much as 2 ft. high. The best of its color.

**WALHALLA**—Wine red.

**STRONG ROOTS**—Each 25c; per doz. \$2.50.

## SPANISH IRIS

These beautiful flowers, with their dainty shape, long stems and charming colors, are becoming more popular each year. They should be in every garden. Golden yellow, sky blue, dark blue, pure white, bronze, etc. Each 10c; doz. \$1.00; 100 \$7.00.





**SPOKANE SEED CO.**  
**ROSES** are large, sturdy, two-year-old, field-grown roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.

## Planting and Care

**THE TIME TO PLANT**—Roses may be planted either in the Fall or Spring. It should be done early, and we earnestly request our friends to place their orders in mid-Winter so that shipment can be made at the most favorable time.

**PLANTING**—Deep preparation of the soil is urged. Be sure and stir the ground thoroughly to the depth of 18 inches and at least two feet if soil is inclined to be wet or soggy, filling in extra six inches with stones to insure drainage. Bone meal if available, worked into ground at time of planting, will be a big help, using one large trowel full to a plant. Sheep manure in a little larger proportion is also good. If planting in the Fall prune tops but slightly but be sure to trim all root ends back unless this has been done at the nursery.

In the Spring trim back all branches to not more than 4 eyes. Plant your roses at least 2 inches deeper than the crown from which the sprouts arise.

**CULTIVATION AND PROTECTION**—Keep the soil well stirred but do not cultivate deeper than 2 inches. Soak the ground when you do water and then do not water again until the surface is quite dry. Be sure to protect your roses from insects and disease by spraying. We handle a full line of these essential sprays and will readily help you with your troubles.

**PLEASE NOTE**—We have done our best to secure a list of roses that will satisfy everyone. It is impossible to list the hundreds of varieties of roses that are now on the market but we have selected what we consider the choicest and best to list in our catalog. When

ordering, please state if we may replace sold out varieties with others equally as good. This will save the delay of correspondence.

We have made up collections of roses consisting of all shades and colors in each collection for those not knowing individual roses. These collections are really worth having, besides saving you money.

**SHIPPING**—We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting. Add 5c postage for each bush.

## Beautiful Roses of Recent Introduction

Fine 2 Year Field Grown Dormant Plants

**COLUMBIA (H. T.)**—One of the greatest of recent introductions. The color is a true pink, deepening as it opens to a glowing pink. A striking peculiarity of this rose is that the shades all deepen as the rose opens. Single buds, long stems, splendid for cutting. \$1.00.

**DOROTHY PAGE ROBERTS (H. T.)**—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

**GORGEOUS**—Strong, vigorous growing, with handsome olive-green foliage. Color deep orange-yellow, heavily veined and reddish copper. \$1.00.

**JULIET (H. B.)**—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented. \$1.00.

**LADY HILLINGDON (T.)**—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose. \$1.00.

**LOS ANGELES (H. T.)**—Flame pink toned with coral and shaded gold at base of petals. Beautifully formed, fragrant, vigorous and very free blooming. \$1.00.

**LOUIS CATHERINE BRESLAU (H. T.)**—Coral red, shaded chrome yellow,

low, opening to a shrimp pink, shaded coppery orange. \$1.00.

**MAD. BUTTERFLY (H. T.)**—Sport of Ophelia, brilliant pink suffused apricot and gold. \$1.00.

**MISS LOLITA ARMOUR**—A magnificent new rose produced by the same hybridizer who gave us Los Angeles. Color chrome yellow at base of petals, shaded to coppery orange. Flowers very large, of finest form, on stout canes. \$1.00.

**OLD GOLD (H. T.)**—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. \$1.00.

**OPHELIA (H. T.)**—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously. 75c.

**PILGRIM (H. T.)**—A lovely silver pink. Vigorous and free blooming. 75c.

**QUEEN OF FRAGRANCE (H. T.)**—Large double elegantly shaped shell pink blooms, tipped with silver. Noted for its fragrance. 75c.

**MRS. AARON WARD (T.)**—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence. \$1.00.

**RED COLUMBIA (H. T.)**—Semi-double rose, being a sport from Columbia. Brilliant scarlet crimson. \$1.00.

**RED LETTER DAY**—Brilliant glowing crimson scarlet, opening into medium-sized cactus shaped flower of curious formation. \$1.00.

**SOUV. DE CLADIUS PERNET (Pern)**—On the order of Constance or Golden Emblem but with large elongated and beautifully formed buds. Color is clear brilliant yellow. Wonderful foliage. \$1.00.

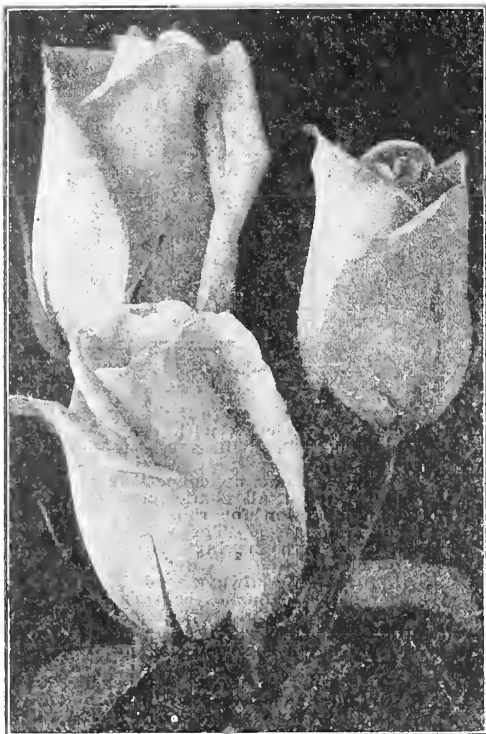
**SUNBURST (H. T.)**—The finest of all yellow roses with long pointed buds. Color a superb cadmium yellow with orange yellow center. The foliage is a handsome bronze green. \$1.00.

**TIPPERARY**—An attractive shade of soft golden yellow. It is remarkable for its perfectly shaped buds. Its strong habit of growth is unusual for a rose of its color. \$1.00.

**WILLIAM F. DREER**—Soft shell pink, base of petals rich golden yellow. We are quite sure that all who try this variety will be pleased. \$1.00.

**USE SEMESAN**

## ROSES OF RECENT INTRODUCTION—Continued



**ARTHUR R. GOODWIN** (Pern.)—Excellent rose, buds open in copper mixed with orange-red, later replaced by soft salmon pink.

**AVOCA** (H. T.)—Crimson scarlet large, well-formed flowers.

**CONSTANCE**—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds.

**COUNTESS CLANWILLIAM** (H. T.)—Producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers.

**DONALD McDONALD** (H. T.)—Medium sized, well shaped flowers of intense orange carmine.

**EDITH CAVELL** (H. T.)—Color pale lemon-white, long pointed buds. Good show and decorative variety.

**EDITH PART** (H. T.)—Well shaped buds, and blooms of rich red, suffused salmon and yellow.

**FRANZ DEEGAN** (H. T.)—Center golden yellow, outer petals soft yellow. Very fragrant.

**FRANK W. DUNLOP** (H. T.)—A Canadian rose of brilliant dark pink color. Free flowering.

**GEORGE C. CLEMENCEAU** (H. T.)—Bright orange shaded carmine.

**GEORGE C. WAUD** (H. T.)—A beautiful variety possessing a distinct color. Glowing vermilion with orange red suffusion.

**HOOSIER BEAUTY**—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

**MADAME MELANIE SOUPERT** (H. T.)—Splendid new orange yellow shaded pink; beautiful long-pointed buds. Best of its color.

**MAD. EDOUARD HERRIOTT**—The famous winner of the Daily Mail Prize. The color being terra cotta bronze and geranium red, new combination of colors in rose.

**MAD. RAVARY** (H. T.)—Clear orange-yellow, long-pointed buds; flowers of fine form.

**MARGARET DICBSON HAMILL**—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leafstalks. Very distinct and a gem among new roses. Each 60c.

**MARQUIS DE SINETY** (H. T.)—Deep saffron yellow; flushed red, dish copper. Flower large.

**MRS. ALFRED TATE** (H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

**MRS. AMBROSE RICARDO** (H. T.)—Large blooms of a fine deep yellow overlaid with a lighter yellow suffused pink.

**MRS. CHARLES RUSSELL** (H. T.)—"American Beauty" can not compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

**MRS. F. W. VANDERBILT** H. T. 3—Deep orange red, shaded bronze apricot red. A very attractive variety.

**RAYON D'OR**—A gorgeous yellow rose with wonderful foliage. Needs a little protection in severe Winters.

Try Our  
Rose & Lawn  
Fertilizer

## Finest Hardy Perpetual Roses

For Eastern Oregon and Washington or in sections where the Winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid roses would not prove satisfactory.

Two-Year-Old Field Grown Plants 60c Each (Except As Noted.)

**AMERICAN BEAUTY** (H. P.)—One of the largest, sweetest and best; rich, glossy crimson, shaded and veined in a most charming manner.

**BARONESS ROTHSCHILD** (H. P.)—Flowers of immense size, color bright rosy pink.

**BLACK PRINCE**—Almost a black rose. Very hardy, large and full. Each 50c.

**CAPTAIN HAYWARD**—The bloom is of the largest size. Color, deep glowing red, flushed with crimson. A free bloomer, delightfully fragrant.

**CONRAD F. MEYER**—A most valuable addition to the list of hardy free-blooming roses. The color is a beautiful silvery pink. Each 50c.

**DINSMORE**—One of the best hardy red roses. Prolific bloomer and very fragrant.

**DUCHESS OF WELLINGTON** (H. P.)—Intense saffron yellow stained

with rich crimson which as the flower develops, become deep coppery saffron yellow. Delightfully fragrant. Each 50c.

**FRAU KARL DRUSCHKI** (H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double. Each 50c.

**GEORGE ARENDS**—Bears some resemblance in growth and bloom to that famous hardy white rose Frau Karl Druschki. The flowers are of large and massive proportions, surmounting stout almost thornless canes in a most imposing manner. The color is a delightful fresh and bright shade of pink with silvery suffusions.

**GEORGE DICKSON**—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition.

**GENERAL JACQUEMINOT** (H. P.)—Bright shining crimson; very rich and velvety.

**HUGH DICKSON** (H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer. (Should be cut back freely.)

**MADAME CAROLINE TESTOUT**—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively. Each 50c.

**MRS. JOHN LANG** (H. P.)—A soft delicate pink, with satiny tinge; very free flowering.

**PAUL NEYRON** (H. P.)—Deep, shining rose, blooms freely, the largest variety in existence.

**ULRICH BRUNNER** (H. P.)—Extra large, bold flowers, full and globular; color, rich glowing crimson elegantly flamed with scarlet.

## Climbing and Pillar Roses

Two-year-old Bushes, Field-grown, 60c Each (Except as Noted)

**AMERICAN BEAUTY**—Rich crimson color; delightfully fragrant; very free bloomer.

**CECIL BRUNNER**—Clusters of pretty pink flowers, especially beautiful in bud.

**GLORIE DE DIJON**—An old favorite, noted for its free flowering, its delicate tea scent, and its shades of color, being a blending of amber.

**GENERAL McARTHUR (H. T.)**—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

**KAISERIN A. VICTORIA**—Strong rapid growing climbing form of the popular rose. Fine large ivory white flowers.

**LA FRANCE**—Identical with the well known La France vigorous climber.

**MAD. CAROLINE TESTOUT**—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

**MARECHAL NEIL**—A magnificent deep golden yellow variety; so famous as to need no description; finest of its color. Each \$1.00.

**DR. VAN FLEET**—Flowers large with high built center and petals beautifully undulated and cupped. Color the most beautiful shade of shell pink ever seen in a rose. A rank climber, immune from mildew.

**PAULS SCARLET CLIMBER**—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers. These flowers never

turn blue but retain their intense coloring until petals fall. Cannot be too heartily commended as essential.

**PAPA GONTIER (T.)**—A "Native Sport" from this favorite variety.

**PINK CHEROKEE**—Lovely single blossoms, 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

**SILVER MOON**—Similar in habit of growth to Dr. Van Fleet, but with large saucer-like single flowers of silvery white color. Flowers of wonderful substance on long stems.

**SUNBURST**—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. Each \$1.00.

## The Popular Rambler Roses

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season. Two-year-old plants 50 cents each.

**DOROTHY PERKINS**—Polyanthus type; a beautiful bright shell-pink; large double flowers.

**HIAWATHA (T.)**—Single, ruby crimson, large single flowers.

**RED DOROTHY PERKINS**—Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

**TAUSENDSCHON**—A lovely shade of

soft pink, free and vigorous; splendid foliage.

**WHITE DOROTHY**—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety but having pure white flowers.

## COMPLETE ALPHABETICAL LIST OF ROSES

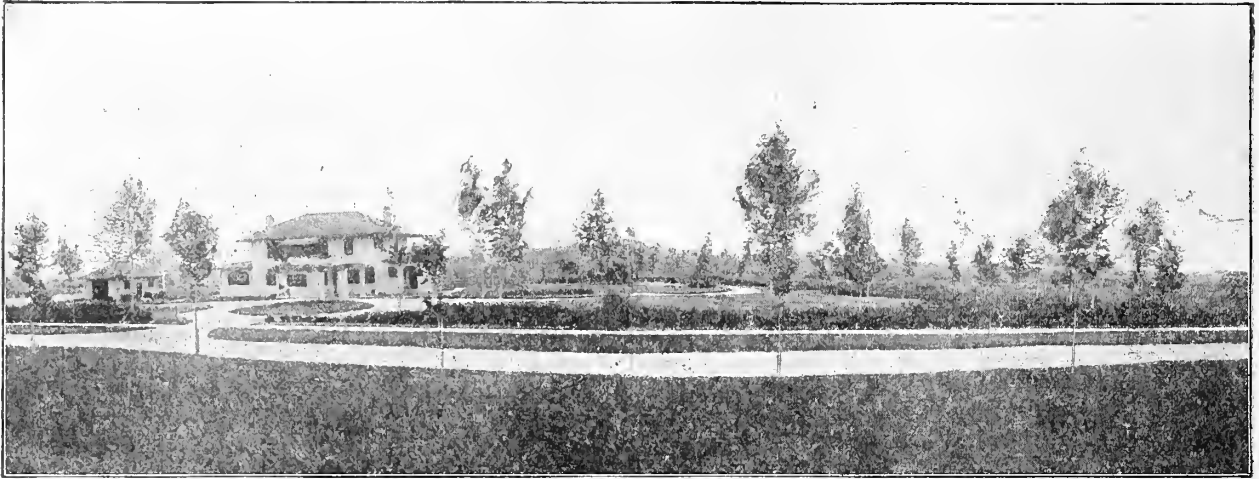
FOR COMPLETE DESCRIPTIONS OF EACH ROSE SEE THE PAGE NUMBER MENTIONED AFTER EACH PRICE

	Price	Page		Price	Page		Price	Page
American Beauty .....	.60	46	George Arends .....	.60	46	Mrs. Alfred Tate.....	.75	46
American Beauty Climber.....	.50	47	George C. Clemenceau.....	.75	46	Mrs. Ambrose Ricardo.....	.75	46
Arthur R. Goodwin.....	.75	46	George Dickson .....	.60	46	Mrs. Charles Russell.....	.60	46
Avoca .....	.75	46	George C. Waud.....	.75	46	Mrs. F. W. Vanderbilt.....	.75	46
Baroness Rothschild .....	.60	46	Gloire de Dijohn Climber.....	.60	47	Mrs. John Lang.....	.60	46
Black Prince .....	.50	46	Gorgeous .....	1.00	45	Old Gold .....	1.00	45
Captain Hayward .....	.60	46	Hiawatha Rambler .....	.50	47	Ophelia .....	.75	45
Cecil Brunner Climber.....	.50	47	Hoosier Beauty .....	.75	46	Paul Neyron .....	.60	46
Climbers .....	.....	47	Hugh Dickson .....	.60	46	Paul's Scarlet Climber.....	.60	47
Columbia .....	1.00	45	Juliet .....	1.00	45	Papa Gontier Climber.....	.60	47
Conrad F. Meyer.....	.50	46	Kaiserin A. Victoria Climber..	.60	47	Pilgrim .....	.75	45
Constance .....	.75	46	Lady Hillingdon .....	1.00	45	Pink Cherokee Climber.....	.60	47
Countess Clanwilliam .....	.60	46	La France Climber.....	.60	47	Queen of Fragrance.....	.75	45
Dinsmore .....	.60	46	Los Angeles .....	1.00	45	Rayon D'Or .....	.75	46
Donald McDonald .....	.75	46	Louise Catherine Breslau.....	1.00	45	Red Columbia .....	1.00	45
Dorothy Page Roberts.....	1.00	45	Mad. Butterfly .....	1.00	45	Red Dorothy Perkins Rambler	.50	47
Dorothy Perkins Rambler .....	.50	47	Mad. Caroline Testout.....	.50	46	Red Letter Day.....	1.00	45
Dr. Van Fleet Climber.....	.60	47	Mad. Caroline Testout Climber..	.60	47	Silver Moon Climber.....	.60	47
Duchess of Wellington.....	.50	46	Mad. Edouard Herriott .....	.75	46	Souv. de Claudius Pernet.....	1.00	45
Edith Cavell .....	.75	46	Mad. Melaine Soupert.....	.75	46	Sunburst .....	1.00	45
Edith Part .....	.75	46	Mad. Ravary .....	.75	46	Sunburst Climber .....	1.00	47
Frank W. Dunlop .....	.75	46	Marechal Neil Climber.....	1.00	47	Tausendschon Rambler.....	.50	47
Franz Deegan .....	.75	46	Margaret Wickson Hamill.....	.60	46	Tipperary .....	1.00	45
Frau Karl Druschki.....	.50	46	Marquis De Sinety.....	.75	46	Ulrich Brunner .....	.60	46
General Jacqueminot H P.....	.60	46	Miss Lolita Armour.....	1.00	45	White Dorothy Rambler.....	.50	47
General McArthur Climber....	.60	47	Mrs. Aaron Ward.....	1.00	46	William T. Dreer .....	1.00	45



# DECIDUOUS SHRUBS

Deliveries are made from November until May, orders are accepted at any time for delivery in season.



We use every precaution to deliver healthy, vigorous stock, but the measure of your success will depend upon the planting and care given, as careless or ignorant handling kills thousands of fine trees and plants every season. Avoid unnecessary exposure of roots to the air. In the case of evergreens that are "balled," Do not remove the burlap. Plant as received, only cut the string around the top, then loosen burlap after tree is set. If you cannot plant immediately on receipt, always "heel" in so roots may be in contact with good soil.

If the soil is good and properly prepared, only a hole large enough to easily take the roots need be dug, but better results can always be obtained by digging out a large space and filling in with good top soil. In setting the trees, do not put deeper than they stood in the nursery, excepting some dwarfs, which go a little deeper. Be sure to Pack Earth Solidly Around Roots. Neglect of this is responsible for many failures.

## ALMOND—(Prunes)

**PINK FLOWERING—(P. Japonica)**—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. Each 75c to \$1.50.

## ALTHEA—(Rose of Sharon)

Late Summer blooming shrub that continues on up into the Fall, when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. Each 75c.

## BERBERRY

**BERBERIS THUNBERGII**—(Japanese Barberry)—Of very dense, dwarf, spreading habit; foliage deep and abundant; gorgeous coloring in Autumn. Makes a good hedge. Bright berries in Winter. Each 35c, 50c, 60c, 75c.

**BUDDLEYA**—(Summer Lilac—Magnifica) This fine new shrub produces long straight slender branches that terminate in long spikes of lilac-like flowers of a beautiful shade of lavender blue. Commences to bloom in June and continues until frost. Fine subject for lawn or tall hedge. Two-year plants. Each 75c to \$1.00.

## CALYCANTHUS

**FLORIDUS**—(Sweet Scented Shrub)—An old favorite, double, dark crimson flowers, very fragrant and blooms all season. Each 75c.

## CARAGANA ARBORESCENS

(Siberian Pea Tree)—Showy large shrub, with attractive pea-like yellow flowers in May and June. Branches green. Holds its leaves late. An excellent hedge plant. Specimens, each 50c.

## CORNUS (Dogwood)

**Alba Sibirica**—The brilliant red-twigged variety, planted so extensively for winter effect. Each 50c to 75c.

**MAS (Mascula)**—Cornelian Cherry. Bright yellow flowers in Spring, followed by scarlet fruit. Each 75c to \$1.00.

**STOLONIFERA LUTEA**—(Yellow-twigged Dogwood)—Similar to C. alba sibirica, excepting this variety has yellow and distinct bark. Each 75c.

## CHERRY

**CHERRY—(Cerasus)**—Japanese Weeping—4 feet, single pink flowers. Each \$3.00.

## CRAB

**BECHTEL'S FLOWERING**—Bears masses of double rose-like flowers of delicate pink color, and delightful fragrance, tree shape. Each \$1.50.

## DEUTZIA

**PRIDE OF ROCHESTER—(Deutzia Crenata)**—Pure white, tinged with blush. Flowers very double, blooming May and June. Each 75c.

**LEMOINE'S—(D. Lemoinei)**—One of the hardiest shrubs and most popular variety, flowers in large clusters of pure white. Each 75c.

**WATERI—(D. Crenata Flora Rosa Plena)**—Beautiful dainty double pink flowers. A fine lawn subject. Very showy. Each \$1.00.

## ELAEGNUS

**ELAEGNUS, Japan, China**—Ornamental shrub of spreading habit. Branches ruddy brown, leaves silvery. Flowers small but numerous. Yellowish white and fragrant, followed by scarlet fruit in large clusters. Note—The fruit is edible and makes delicious jelly or juice. 1½ to 2 ft., 75c each.

## FORSYTHIA—(Golden Bell)

**F. FORTUNEI**—Blossoms in dense masses of golden yellow flowers in early Spring. Beautiful as lawn tree. Each 50c to 75c.

**INTERMEDIA**—One of the finest shrubs for early Spring blooming. Yellow flowers appear before leaves. Height at maturity 4 ft. Each 50c to 75c.

## HONEYSUCKLE—(Bush)

**WHITE TARTERIAN**—Bushy upright growth, flowers freely. Red and orange berries stay on until Fall. Each 75c.

## HYDRANGEA

Each 75c to \$1.50.

**PANICULATA GRANDIFLORA**—(Tree Hydrangeas)—Grows three or four feet high. Flowers are in cone shape on ends of branches, and are pure white, afterwards changing to pink, remaining on tree until frost. Each 50c to \$1.00.

**BUSH HYDRANGEA**—Same as Paniculata Grandiflora but not in tree shape. Each 75c.

## KERRIA

A very graceful shrub that bears bright yellow flowers. Rose shaped in early Spring, vivid green branches, showy in Winter. Each 50c to 75c.

## LILAC (Syringa Vulgaris)

Each 50c to 75c.

**COMMON**—White or purple.

**CHAS. SARGENT**—Violet-mauve blended with sky-blue enormous flowers.

**HIPPOLYTE MARINGER**—Purplish-mauve, compact flowers, very free.

**JEAN BART**—Rosy-violet, buds carmine.

**MAXIMOWICZ**—Violet-heliotrope, reverse silvery, enormous flowers.

**CHRISTOPHE COLOME**—Light lilac, buds purple, very fine and large.

**DR. BREITCHNEIDER**—Purple in bud opening, white, late.

**NIGRICANS**—Lilac, fine.

**PERLE VON STUTTGART**—Pure white.

## MOCK ORANGES—(Syringa)

Large hardy shrub with a profusion of white creamy flowers, very fragrant. Each 50c to 75c.

**ROSA RUGOSA**—(Single Japan Rose)—Pink and white. May to September. Upright, hardy shrubs with very thorny branches. Leaves are dark green, pubescent and plicated. Flowers are frequently two inches across and very showy. Each 75c.

## QUINCE

**JAPANESE FLOWERING QUINCE**—Covered with bright scarlet flowers very early in the Spring before the leaves appear. Each \$1.00.

## RUSSIAN OLIVE

Large shrub with long narrow silvery foliage. Flowers yellow, appearing in May, followed by yellow berries. Each 50c to 75c.

## SPIRAEIS, Each 60c

**SPIRAEA THUNBERGII**—Charming spiraea with graceful form and abundant blooms. Each 50c.

**BILLARD'S—(S. Billardi)**—Flowers red in dense spikes, blooms most of Summer. Each 60c.

**VAN HOUTTE'S BRIDAL WREATHS—(S. Vanhoutte)**—Very graceful; flowers white in round clusters. May. Each 35c to \$1.00.

**ANTHONY WATERER—(S. Bumalda)**—A most desirable variety, having deep red flowers, blooming all Summer; fine for foreground planting. Each 50c to 75c.

## SNOWBALL

**COMMON**—Flowers globular, pure white, in May. 3 to 4 feet. Each 50c to 75c.

## TAMARIX

**JUNIPERNIA — (Africana)**—Ornamental tree with soft, juniper-like leaves, pink flowers, 3 feet. Each 50c.

## WEIGELIA

Each 75c

**CANDIDA**—Flowers white, bush tall.

**ROSEA**—Flowers light pink, shrub compact.

**EVA RATHKE**—Flowers red, one of the best.

# EVERGREEN SHRUBS

## BARBERRY

**BERBERIS DARWINI**—Shrub with holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early Spring; desirable for hedges. Each \$1.00.

**B. WILSONI**—(Wilson's Barberry)—A recent introduction from China. A dwarf shrub with small green leaves and long spines. Turns to red in the Fall. Each \$1.00 to \$1.50.

**BERBERIS-VERICULOSIS**—Similar to Darwini but far more brilliantly colored in the Fall. Very beautiful. Dwarf. Each \$1.25.

## BOXWOOD (Buxus)

**PYRAMIDAL BOXWOOD**—Cone shaped plant of great beauty. 2 to 2½ feet, each \$4.00. 2½ to 3½ feet, each \$5.00

**GLOBE BOXWOOD**—Trimmed in shape of a globe. Each \$2.00 to \$4.00.

**BOXWOODS FOR HEDGES AND BORDERS**—Write for prices on quantity desired.

## COTONEASTER

A very beautiful shrub, practically evergreen. They are hardy with fine cut leaves and showy red berries that stay on all Winter. They come in both bush or trailing shrub, and tall.

**C. HORIZONTALIS**—(Trailing Coton-easter)—Low growing with horizontal branches, dark green leaves. Fruit red. Each \$1.00 to \$1.50.

**C. MICROPHYLLA**—Small leaved trailing form with minute green leaves. Each \$1.50.

**C. FRANCHETTI**—A large sized shrub of graceful droopy habit, covered with a mass of red berries in Fall. Each 75c and \$1.50.

## HOLLY (Ilex)

**ENGLISH**—(Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the Winter months with bright red berries. Berry-bearing trees, each \$3.50 up.

## LAURISTINUS

**LAURISTINUS**—Well known evergreen shrub, with dark green leaves. Flowers white tinted with pink, blooming in late Winter, early Spring. Each \$1.00 to \$2.00.

## LAUREL

**ENGLISH LAUREL**—(Laurel Lauro-Cerasus)—A small tree or shrub with large handsome shining foliage during the entire year. Fine for hedges or specimen plants. Each 75c to \$2.00. (Write for price on hedge plant size.)

## OREGON GRAPE

**OREGON GRAPE**—(Mahonia Aquifolia)—Official flower for the State of Oregon. Holly leaved Barberry. Each \$1.00 to \$2.00.

## PORTUGAL LAUREL

**PORTUGAL LAUREL**—A very beautiful slow growing laurel but dark green glossy leaves, small but very compact. 15 in. to 18 in., each \$1.00; 20 in. to 24 in., each \$1.50.

## PRIVET

(Ligustrum Ovalfolium)

**GOLDEN PRIVET**—Beautiful variegated shrub used to plant in among evergreens, giving a wonderful effect. 2 ft. Each \$1.50.

**CALIFORNIA PRIVET**—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants.

	25	50	100
2 year old, 10-12 inch.....	\$2.50	\$ 4.00	\$ 7.50
2 year old, 12-18 inch.....	3.00	5.50	10.00
3 year, 2-3 feet.....	4.50	8.00	15.00
3-4 feet .....	6.00	11.00	20.00

## VERONICAS

Shrubs of compact growth forming well rounded specimens which can be used singly or in groups. Fine to use as borders or to place in front of taller growing species.

**V. BUXIFOLIA**—(Box Leaved Veronica)—small shrub of upright growth, very compact. Small foliage, white flowers. Each 75c to \$1.25.

**V. CYPRESSOIDES**—Globular shaped with numerous slender branches clothed with scale-like leaves which give it the appearance of cypress. Valuable in the shrubby border. Each 75c to \$1.50.

**V. TRAVERSI**—Upright growing variety. One of the hardiest. Bears white flowers during early summer. Each \$1.00 to \$1.50.

# DECIDUOUS TREES

## ASH

**AMERICAN WHITE**—Broad, round head and dense foliage. Very fine. Each \$1.50.

## BIRCH

**EUROPEAN WHITE BIRCH**—Tall; very graceful habit; effective among evergreens .....\$1.50-\$10.00

**CUT-LEAVED WEEPING WHITE BIRCH**—Effective in groups for foliage, form and bark.....\$5.00-\$15.00

## CATALPA

Splendid trees, white flowers, bright foliage.

**CATALPA WESTERN (Speciosa)**—Very rapid grower; a quick shade. 7 to 8 ft., each \$1.00.

**CATALPA BUNGEI**—Dwarf dense rounded headed variety, much in outline like the Popular Bay trees, but is hardy and better adapted for garden. 6 to 8 ft., each \$2.00.

## ELM

**AMERICAN WHITE**—A magnificent tree with drooping branches. 7 to 8 ft., \$1.50.

**ENGLISH ELM**—A rapid grower, standing erect and compact, dark green. Each \$1.50.

## HAWTHORNE

**DOUBLE WHITE (C. Monogyna Alba Plena)**—Flowers small. Leaves lustrous green. \$2.00 to \$3.00.

**PAUL'S DOUBLE SCARLET (C. Monogyna Pauli)**—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. Each \$2.00 to \$3.00.

## HORSE CHESTNUT (Aesculus)

**WHITE FLOWERING (A. Hippocastanum)**—Foliage showy, flowers stand in upright panicles. Each \$1.50.

## LABURNUM (Golden Chain)

**LABURNUM (L. Vulgare)**—A beautiful small growing tree, with long, drooping racemes of fragrant yellow flowers. Each \$1.50.

## LINDEN (Tilia)

**AMERICAN (T. Americana)**—Shapely and handsome; foliage large. Each \$1.50.

**EUROPEAN (T. Europea)**—Similar to American. Leaf smaller. Each \$1.50.

## LOCUST (Robinia)

**BLACK (R. Psuedacacia)**—Rapid grower; fine for street planting. Each \$1.00.

**HONEY LOCUST**—Each 75c.

## MAPLE (Acer)

**NORWAY (A. Platanoides)**—Large, growth compact; foliage deep green. Handsome. 6 to 8 feet, each \$1.50.

**MAPLE (A. Platanoides Schwedleri)**—Purple Leaf Maple. Variety Norway Maple. Young leaves are deep purple. As summer advances changes to green. 6 to 8 feet. \$3.00 each.

## MOUNTAIN ASH (Sorbus)

**EUROPEAN (S. Aucuparia)**—White flowers, then beautiful red berries. Each \$1.50.

**AMERICAN (S. Americana)**—Very ornamental, handsome foliage turning orange red in the Fall. Red berries remain on the tree most of the Winter. Each \$1.50.

## OAK (Quercus)

**OAK PIN (Q. Palustris)**—This Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply pinnated foliage. Each \$2.00.

**OAK RED (Q. Rubra)**—Ideal for lawns or street. Each \$2.00.

## SYCAMORE or PLANE (Platanus)

Erect growing tree with mottled trunk. Foliage bright green. Each \$1.50.

**VARIEGATED BOX LEAF ELDER**—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting 4 to 6 feet. Each \$3.00.

## WEeping WILLOW (Salix)

**WISCONSIN (S. Babylonica dolorosa)**—Large glossy leaves, pendulous habit. Each \$1.00.

**AMERICAN (S. Babylonica)**—The well-known common weeping willow. Each \$1.50.

# CONIFEROUS EVERGREENS

## ARBOR VITAE (Thuja)

**AMERICAN (T. Occidentalis)**—Native, known as cedar. Foliage bright green; yellow-green underneath; bronze in Winter. Each \$1.00.

**PYRAMID ARBORVITAE—THUYA LOBBI**—Bright green leaves above and dark glossy green leaves underneath. An excellent tree for pyramid forms. 2 feet, each \$3.00.

## CEDAR (Cedrus)

**DEODAR or INDIAN CEDAR (C. Deodora)**—Very handsome; branches drooping; foliage silvery green. Very popular. Each \$2.50.

**RED CEDAR (Juniperus Virginia)**—Native with striking form and color. Each \$1.00 to \$3.00.

## CYPRESS (Cypressus)

## NEW VARIETIES

**ALUMNI**—Handsome pyramid shaped conifer. Foliage greenish-blue. Each \$1.50 to \$3.00.

**CYPRESS LAWSON'S (Chamaecyparis Lawsoniana)**—Graceful and conspicuous; branches horizontal, slightly pendulous, foliage dark green. Each \$1.50 to \$5.00.

## FIR (Abies)

**NORMAN'S (A. Normanniana)**—Lustrous; green foliage; very symmetrical. Each \$3.00.

**CONCOLOR**—A picturesque Colorado species; long, leathery leaves, with glaucous tinge. Branches arranged in horizontal whorls. A grand tree, making splendid specimens.....\$3.00 to \$40.00

## JUNIPER (Juniperus)

**IRISH (J. Communis hibernica)**—Pyramidal in form. Foliage silver gray. Very striking. 2 to 3 feet, each \$2.00-\$4.00.

**COMMON (J. Communis)**—Branches spreading. Fine trees. 2½ to 3 feet. \$3.00.

## RETINISPORA

**PLUMOSA AUREA**—Same as R. Plumosa but golden. Each \$2.00 to \$4.00.

**SQUARROSA**—Dense, compact. Foliage with feathery branches. Light bluish green. \$2.00 to \$4.00.

## SPRUCE

**BLACK HILLS**—Valuable for cold climates and light, dry soil. Specimens. 3 to 8 ft. \$3.00-\$15.00.

**COLORADO**—\$1.00 up.

**COLORADO BLUE (Koster's)**—Unquestionably the most popular of the Spruces for garden or lawn.

**ENGELMANNI**—\$2.00 up.

**NORWAY SPRUCE**—No evergreen is more generally planted than this, because of its exceedingly rapid growth and extreme hardiness, which adapt it for shelter and massing for effect. Each \$1.50 to \$10.00.

# Fruit Trees

In the purchase of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you the best results.

## APPLES

	Each	Per 10
First Grade, 2 years.....	\$1.00	\$8.00
First Grade, 4 to 5 feet.....	.65	5.50
First Grade, 1 year, 3 to 4 ft. .50		4.50

F. O. B. Spokane; if mailed, postage extra.

### Summer Varieties

**EARLY HARVEST**—Medium size; bright straw color; tender and fine, good for table and cooking. July.

**RED ASTRACHAN**—Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive. August.

**YELLOW TRANSPARENT**—Medium size, roundish, slightly conical; skin pale yellow; flesh tender, juicy, sub-acid; good; bears at an early age. July.

### Autumn and Winter Varieties

**DELICIOUS**—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use and especially adapted to Eastern Oregon and Washington. Keeps till April.

**GRIMES GOLDEN**—Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.

**JONATHAN**—Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollinizer with Spitzenberg and Newtown. October to January.

**NORTHERN SPY**—Large, round, greenish-yellow, stripes of purplish-red; flesh white, juicy, brisk sub-acid; valuable for "top work." Requires good soil. December.

**SPITZENBERG**—Large, oblong; yellowish ground with broken stripes of bright red flesh yellowish, juicy, delicious rich flavor. November to March.

**WEALTHY**—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.

**WINTER BANANA**—Fancy market fruit; pale yellow with pink blush. Has a delightful aroma and suggestive banana flavor. Not a good shipper. November.

**YELLOW BELLFLOWER**—Large, oblong, yellow, sometimes a blush in the sun; flesh firm, crisp, juicy, sub-acid; tree a good grower and very productive; succeeds well in this valley. October to January.

**YELLOW NEWTOWN PIPPIN**—Large; skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties for export. December to May.

### Crab Varieties

**RED SIBERIAN**—Yellow with scarlet cheek. Bears young and abundantly. September.

**TRANSCENDENT**—Very large, good for cider; yellow striped red. Productive. Adapted to Montana. September.

## PLUMS

6 to 8 ft. ....	50c each, \$6.50 per 10
4 to 6 ft. ....	40c each, \$4.50 per 10
2 year .....	\$1.00 each, \$8.00 per 10

F. O. B. Spokane.

**BRADSHAW**—Reddish purple, juicy and pleasant; adheres partially to the stone. July.

**PEACH**—Very large; skin brownish red, slightly coarse grained, but juicy; freestone; very popular. July.

**GREEN GAGE**—Small round; flesh pale green, melting and juicy; freestone. Mid-July.

**MAYNARD**—Dull red, large, round and firm; rich and sweet; sturdy, quick-growing, heavy-yielding variety; extra fine; ripens in July.

**YELLOW EGG**—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy. August.

**SATSUMA (Blood Plum)**—Quite popular, large, dark red from skin to pit, which is small; firm and juicy; tree productive. Early July.

## CHERRIES

	Each	Per 100
First Grade, 2 years.....	\$1.50	\$10.00
First Grade, 4 to 6 feet.....	1.00	9.00
First Grade, 1 year, 3 to 4 ft. .65		5.00

F. O. B. Spokane; if mailed, postage extra.

**BING**—Originated in Oregon, from seed of Black Republican; fruit large, dark brown or black; very fine; late; good shipping variety. July.

**BLACK REPUBLICAN (Lewelling)**—Seedling, raised by Seth Lewelling, of Oregon; large size, black sweet, with purplish flesh; late and a good shipper. June.

**LAMBERT**—Fruit of largest size and of fine quality; color deep rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. July.

**ROYAL ANN (Napoleon Bigarreau)**—A magnificent cherry of the largest size; pale yellow becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer. July 1.

## PEARS

	Each	Per 10
First Grade, 2 years.....	\$1.00	\$8.50
First Grade, 1 year, 4 to 6 ft. .75		6.50
First Grade, 1 year, 3 to 4 ft. .65		6.00

F. O. B. Spokane; if mailed, postage extra.

### Autumn Varieties

**BARTLETT**—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

**BEURRE BOSC**—Large, beautiful, russet; highly flavored; fine for shipping. September.

**BEURRE D'ANJOU**—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

**FLEMISH BEAUTY**—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

**SECKEL**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequaled; skin brownish green, russet brown cheek. September, October.

### Winter Varieties

**P. BARRY**—Fine keeper. Very large, juicy, fine grained, yellow. December, March.

**WINTER BARTLETT**—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

**WINTER NELIS**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

## PRUNES

If you can—Grow Prunes—The demand is always good and will increase every year as they can only be grown in certain sections, but where conditions are right they are easily and profitably produced.

	Each	Per 10	Per 100
First Grade, 2 years.....	\$1.00	\$8.00	\$70.00
First Grade, 1 yr., 6-8 ft. .75		6.50	50.00
First Grade, 1 yr., 4-6 ft. .50		4.50	30.00

F. O. B. Spokane; if mailed, postage extra.

**GIANT**—Largest prune known; fruit averaging 1½ to 2 ounces each; retaining the good qualities of the smaller varieties.

**HUNGARIAN**—Very large; dark red, juicy and sweet; good shipper. August.

**ITALIAN (Fellenberg)**—Large, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. August.

**PETITE (French)**—Medium, egg shaped; violet purple; sweet, rich and sugary; very productive; standard variety for drying. August.

**PLANT a Prune Orchard Now.**  
Write for Special Prices in Quantities.

## PEACHES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100. F. O. B. Spokane.

**EARLY ALEXANDER**—One of the largest and best of the extra early varieties. Almost freestone. July.

**EARLY CRAWFORD**—Very large, yellow red cheek; sweet and excellent; popular for table and canning; freestone. August.

**ELBERTA**—Very large bright yellow, red cheek; juicy, sweet; regular bearer; freestone. Late July.

**HALE'S EARLY**—Early, free; extra quality; hardy.

**MAYFLOWER**—Beautiful red, all over; extremely early; tree hardy and healthy. Last of June. Freestone.

## APRICOTS

4 to 5 ft. ....	75c each, \$6.50 per 10
3 to 4 ft. ....	65c each, \$5.00 per 10

F. O. B. Spokane.

**MOOSPAK**—Very large, yellowish green, brownish red on the sunnyside; flesh bright orange; fine for canning and drying; freestone. July, August.

**ROYAL**—Above medium size; sweet, rich, juicy, good dryer and canner. July.

**TILTON**—Large; rich color, high flavor; very productive; similar to Royal; later. July.

**BLLENHEIM**—Deep orange, sometimes blushed; tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

# VINES—BERRY BUSHES

## ORNAMENTAL CLIMBING VINES

### Clematis

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich, loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the spring, and tie the vine up well to its support.

**RAMONA**—Beautiful lavender, best of its color.

**HENRYI**—Fine, large, creamy white flowers; a strong grower and very hardy.

**JACKMANII**—Intense violet purple, with a rich velvety appearance; distinctly veined.

**MAD. ED. ANDRE**—A beautiful new variety; flowers red, large and abundant. Large plants \$1.00.

**CLEMATIS PANICULATA**—A rapid and vigorous grower; it produces sheets of medium-sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences. Choice plants, each 35c to 40c; large, 50c to 60c.

### Honeysuckle

**BELGIAN**—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each 50c.

**JAPANESE**—Evergreen; fragrant flowers white changing to yellow. Each 50c.

### Hop Vine

**ENGLISH CLUSTER**—Each 5c; doz. 40c.

### Kudzu Vine

Rapid climber with large heavy foliage; purplish flowers in racemes; during late August. Strong roots 35c; doz. \$3.00.

### Wistaria

**CHOICE PLANTS EACH \$1.00**  
**W. SINENSIS**—(Chinese Wistaria)—Grows 15 to 20 feet in a season; has long pendulous clusters of pale blue flowers in May and June and in Autumn.

**WISTARIA CHINENSIS VARIEGATED**—Yellow variegated leaves, pretty after flowering for the beautiful speckled foliage which is very attractive among other green foliage. Flower same as common Chinese Wistaria.

**W. MULTIJUGA**—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long-racemes.

**WISTARIA MULTIJUGA PINK**—Same as above only flowers are light pink. A very rare sort. \$1.50 to \$2.50.

**W. BRACHYBOTRYS**—White flowering.

### Ampelopsis

**VEITCHI "Boston Ivy"**—Leaves glossy green, coloring bronze in fall; flowers small; berries deep blue. Each 50c.

**QUINQUEFOLIA "Virginia Creeper"**—Common American Ivy. Each 50c.

### English Ivy

Large, thick, shining, leathery leaves; evergreen. Each 35c.

### Trumpet Vine

**BIGNONIA GRANDIFLORA**—(Trumpet Vine)—Strong climber; deciduous; flowers orange scarlet. Each 50c.

**BIGNONIA TWEEDIANA**—Evergreen clinging; flowers canary yellow. Each 50c.

### Dutchman's Pipe

**ARISTOLOCHIA SIPHO**—A handsome bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong, rapid grower. Strong plants. Each 50c.

## GOOSEBERRIES

PRICES: Each 25c; per 10 \$2.00; per 100 \$12.00; F. O. B. Spokane.

Federal Quarantine prevents a shipment of Gooseberries out of the State of Washington.

**OREGON CHAMPION**—Berries very large; pale green; sweet, fine; gush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

**DOWNING**—Large, light green; soft, juicy and good. Vigorous and very productive.

**INDUSTRY**—Very large, dark red, of delicious flavor; best English variety. Bushes strong, upright and very productive.

**RED JACKET (JOSSELYN)**—Large, smooth, prolific and hardy; best quality.

## GRAPES

PRICES: Write for prices in quantity. 2-year plants, not prepaid, postage extra. 25c each, \$2.25 per 10.

**MOORE'S EARLY**—Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

**CONCORD**—Large, black grade; bunches compact; berries round, sweet and pleasant. August.

**DELAWARE**—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, bright red. August.

**NIAGARA**—Bunch medium; berry large, roundish, uniform; skin thin but rough; pale yellow flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

**WORDEN**—Bunch very large and compact; berry large, black; an improved Concord. Late August.

## BLACKBERRIES

PRICES, not prepaid, each 20c; per 10, \$1.75; per 100, \$15.00.

**HIMALAYA GIANT (Evergreen)**—An exceedingly strong rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

**ELDORADO**—A valuable new variety; fruit large, jet black, melting, sweet and rich; hardy and very productive; fine for Oregon.

**LAWTON**—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

**THORNLESS MAMMOTH BLACKBERRY (Cory)**—It is a strong, vigorous grower; bears prolific; the canes grow thick and stout until about 5 or 6 feet long when they take the trailing habit, at which time they should be trellised. It has a delicious flavor of its own, somewhat resembling the wild California blackberry. It is self-fertilizing—never has been known to fail to bear. Another very important feature is that it is almost seedless.

Tips—Spring del. only, each 20c; 100 \$12.00. 1 year transplanted, each 25c; 100 \$20.00.

## DEWBERRY

Price, not prepaid, each 20c; per 10, \$1.75; per 100, \$15.00.

**LUCRETIA**—Fruit large, soft, sweet; no hard core. Hardy, good for this coast. Last of May.

**GARDENIA**—Large glossy black; delicious; heavy bearer; trailing vine. June.

## RASPBERRIES (Black Caps)

Prices, except where noted; not prepaid, 2 years—Each 20c; 10, \$1.75; 100, \$18.00.

**GREGG**—Of good size, fine quality, very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

**PLUM FARMER**—Large black, hardy and productive. One of the very best.

## RASPBERRIES (Red Caps)

Prices, except where noted: Not prepaid, 1 year—Each 10c; 10, 75c; 100, \$5.00.

**CUTHBERT**—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

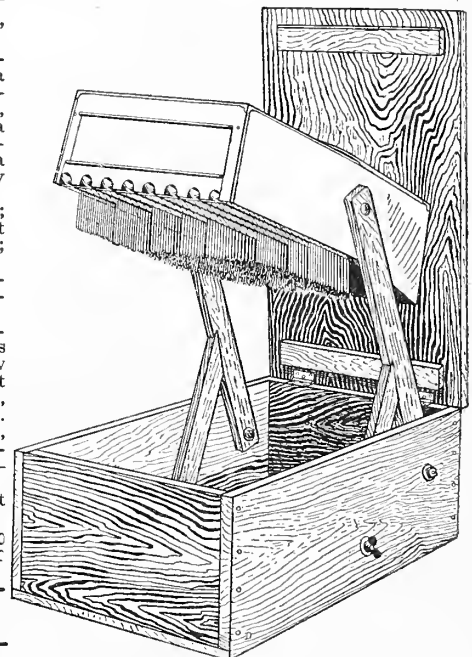
**MARLBORO**—Standard, light crimson, large, very firm; good commercial variety; ripens early.

**ST. REGIS—EVERBEARING RASPBERRY**—These are very popular for home use, as they fruit continuously throughout the season. Of good size and excellent quality. Each 20c; 10 for \$1.75; 100 for \$10.00.

## LOGANBERRY

The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early; excellent for jelly or jam. June.

PRICES, not prepaid—Large, well-rooted plants: Two-year-old, each 25c; 10 for \$2.00; 100 for \$18.00.



## Nail Stripper

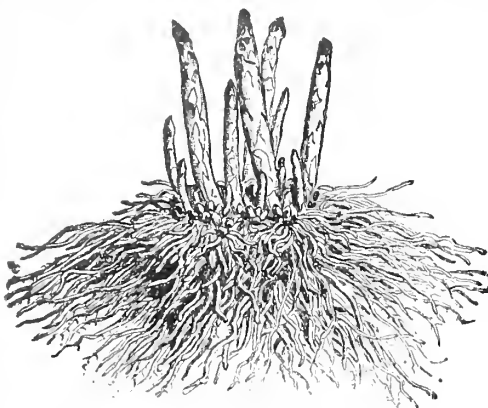
A big time saver when nailing berry crates. Price \$4.75, f. o. b. Spokane.



# VEGETABLE PLANTS

## ASPARAGUS ROOTS

We offer the Best Varieties. Select One and Two Year Plants. Once set increase in value for years



GROW GIANT WASHINGTON  
PEDIGREED ASPARAGUS

### The Best in the World

Asparagus fields have been affected in the past years with rust and other diseases, and the U. S. Dept. of Agriculture has devoted painstaking work in combating these diseases. The Washington asparagus owes its origin to efforts to combat the rust and other diseases. It is our firm belief that growers in this section, and other asparagus growing sections will find it greatly to their advantage to plant the Washington Pedigreed Asparagus.

The U. S. government in its experiments developed the new varieties of Washington, Mary Washington, and Martha Washington asparagus seed under the supervision of the U. S. Government has produced the superior asparagus we are listing under the name, "Giant Washington." This was produced by breeding the female plants, Martha and Mary, to the male plant Washington, resulting in producing the plant, "Giant Washington," which combines all the best characteristics of the three.

## RHUBARB

### PANAMA RHUBARB

An everbearing rhubarb, growing continuously throughout the year, both summer and winter. Frost will not kill it, and in the absence of frost makes its best and most profitable growth during the winter. In size it is more than twice the size, stalks are much heavier and larger, full grown stems often being three feet long and weighing two pounds.

The flavor is of the plum type, Panama rhubarb pie or sauce is so far superior to others, that comparison is out of the question. Comparatively free from acid, requires less than half the amount of sugar ordinarily used, and should not be

Nothing that comes out of the home garden is so much appreciated as the tender tips and fresh stalks of asparagus. A small bed of them, or a border along the garden edge, will supply the average table for six weeks or more in late spring. They should be kept weed-free, and the soil stirred.

In planting, make soil rich; dig trench; set 12 to 18 inches apart, roots spread out, crown 2 inches below surface; and tamp in returned soil firmly.

Prices on Washington:  
PRICE—No. 1 (Formerly listed 2-years) plants, postpaid; per doz., 50c; per 50, \$1.00; per 100, \$1.50. By express or freight, not postpaid, per 50, 90c; per 100, \$1.25; per 1,000, \$8.00. Write for quantity prices.

PRICE—No. 2 (Formerly listed 1-year) plants, postpaid, per doz., 40c; per 50, 75c; per 100, \$1.25; By express or freight, not prepaid, per 50, 60c; per 100, \$1.00; per 1,000, \$6.00.

### PALMETTO

The favorite green asparagus. Extra early and the uniformly large stalks remain tender, being in prime condition for some days after coming above the ground. Palmetto is a heavy, sure cropper.

ON-YEAR-OLD PLANTS—Postpaid, 30c; dozen, 65c per 50, \$1.15 per 100. By express or freight, 25c dozen; 50c per 50; 75c per 100; \$6.00 per 1,000.

TWO-YEAR-OLD PLANTS—Postpaid, 40c per dozen; \$1.00 per 50; \$1.50 per 100. By express or freight, 30c per dozen; 75c per 50; \$1.00 per 100; \$8.00 per 1,000.

### HOP ROOTS

Oregon's Famous English Cluster Hops. Regular Root Cuttings, 10c each; 3 for 25c; 75c doz.; \$4.00 per 100, postpaid.

### HORSE RADISH ROOTS

Plant in the spring 18x24 inches apart. Set the whole root small end down.

Prices: 2 for 15c; 50c per doz.; \$2.00 per 100. Low prices by the 1,000.

peeled. All the roots are what is known as subdivisions.

CULTURE—Plant not more than one-half inch below surface of ground, and water immediately after. Keep ground well cultivated close to plant within two feet from the plant. During first two months irrigate once a week and cultivate after each irrigation. Plant from three to four feet apart in the row, and have rows from four to five feet apart.

PRICE—Each 35c; dozen, postpaid, \$3.75; per 100 F. O. B. Spokane, \$30.

### RIVERSIDE GIANT RHUBARB

RIVERSIDE GIANT has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicious, distinctive flavor. The skin is so thin it disappears in cooking. Riverside

## VEGETABLE PLANTS

**CABBAGE**—Transplanted and "pulled" plants in all standard varieties. Early and late at seasonal times.

Prices: Postpaid Not Prep'd  
Doz. 100 100 1000  
Transplanted .....\$0.20 \$1.00 \$0.75 \$7.00  
Not trans. .... .15 .75 .60 5.00

**KALE**—When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale.

Prices: Postpaid Not Prep'd  
Doz. 100 100 1000  
Thousand Head or  
"Cow Kale".....\$0.20 \$1.25 \$1.00 \$6.00  
Garden or Curley  
Kale ..... .25 1.50 1.25 10.00

Special prices on large lots in season.

**BROCCOLI**—Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter cauliflower very hardy. Plants can be set after June and are ready to use in March.

Prices: Postpaid Not Prep'd  
Doz. 100 100 1000  
Broccoli .....\$0.30 \$1.50 \$1.25 \$12.00  
Write for prices on large lots.

**SWEET POTATO PLANTS**—The plants should be set out after the ground is warm. Rich, sandy bottom land is best, but any good garden soil. Prices, for seasonal delivery, postpaid, doz. 35c; 100, \$1.50; not prepaid, doz., 25c; 100, \$1.25; 1000, \$9.00.

**CAULIFLOWER**—Cauliflower seed is scarce and high in some varieties and plant prices subject to change. Prices, prepaid, Early Varieties, transplanted, doz., 30c; 100, \$1.25; 1000, \$7.00. Not transplanted, 100, \$1.00; 1000, \$6.00.

**TOMATOES**—Tomato plants should not be set out before the weather is settled and ground warm; unless they are protected from frost.

Prices: Postpaid Not Prep'd  
Doz. 100 100 1000  
Transplanted .....\$0.30 \$1.50 \$1.25 \$10.00

**CELERY**—Fine, healthy plants in early Winter varieties furnished in season or grown to order. Prices, postpaid, transplanted, doz., 30c; 100, \$1.25; not prepaid, 100, 75c; 1000, \$6.00.

Glant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July.

PRICE—Each, 15c; doz. \$1.50; \$7.50 per 100. Special prices on large lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions.

**RHUBARB (Victoria)**—Strawberry color.

The most popular variety grown. A good market sort, with beautiful red stalks, giving satisfaction everywhere.

1 year: Each, 10c; doz. \$1.00; 50, \$3.00; 100, \$5.00; 500, \$15.00 1000, \$30.00.

2 year: Each, 20c; doz. \$1.50; 50, \$4.00; 100, \$8.00; 500, \$30.00; 1000, \$50.00.

## SPRAY CALENDAR—WHEN TO SPRAY, WHAT TO USE

Insect or Disease	Plant attacked	What to Spray With	First Spraying
Codling Moth.....	Apple, Pear.....	Arsenate of Lead.....	Just before calyx cups close.
San Jose Scale.....	.....	Scaleproof Standard Sulphur Lime Solution.....	When leaves are off the trees.
Oyster Shell Bark Louse.....	Apple, mainly.....	Standard Sulphur-Lime Solution.....	When leaves are off the trees.
Peach, Moth or Twig Borer.....	Peach.....	Scaleproof, 1 part to 20 parts water.....	When the insects appear.
Woolly Aphis.....	Apple.....	Blackleaf 40—1 oz. to 6 gal. water.....	When the insects appear.
Aphis.....	Roses and plants.....	Blackleaf 40.....	Just as soon as the insects appear.
Cabbage Worm.....	Cabbage.....	Bug Death (non-poisonous).....	Before the worms eat into the cabbage.
Cabbage Aphis.....	Cabbage.....	Blackleaf 40—1 oz. to 6 gal. water.....	When the insects appear.
Slugs.....	Pear, Cherry, Peas.....	Slug Shot or Bug Death.....	.....
Thrips.....	Roses.....	Blackleaf 40.....	When the insects appear.
Cottony Scale.....	Pear, Currant.....	Scaleproof, Blackleaf 40.....	When the insects become cottony (May)
Scab.....	Apple, Pear.....	Bordeaux.....	Just before blossoms open.
Blackspot Canker.....	Apple.....	Bordeaux, double strength.....	Immediately after leaves fall.
Leaf Curl.....	Peach.....	Standard Sulphur-Lime Solution.....	Before buds burst.
Mildew.....	Gooseberry.....	Potassium Sulphide, 1 oz. to 2 gals. water.....	Just as buds burst.

Caution Against Spraying When Trees are in Full Bloom—Spraying when trees are in bloom may destroy bees and other insects necessary to pollinate, and these natural agents should not be interfered with as their work of transferring the pollen insures beautiful crops and shapely fruit.



# STRAWBERRIES

If plants are set 1½ by 3 feet, it will require 9680 plants to an acre

Strawberries will succeed in any soil that is adapted to ordinary farm of garden crops. Soil should be thoroughly prepared to a good depth, well drained and enriched. Vegetable manure (muck, rotten turf, wood soil, ashes, etc.) is the best. For field culture set in rows 3 to 3½ feet apart, 15 to 18 inches in rows; for garden 15 inches apart each way, leaving pathway every third row. To produce fine, large fruit, keep in hills, pinching runners off as soon as they appear. Ground should always be kept clean and well cultivated. In winter a covering of leaves, straw or some kind of litter will protect the plants. Do not cover them until ground is frozen, or so deep as to smother the plants, and remove covering before growth starts in spring. Mulching will keep the fruit clean and the soil in good condition through the fruiting season.

Dip in water as soon as received, and bury the roots in moist, shady ground until ready to set out; do not neglect.

WE SEND STRAWBERRY PLANTS BY EXPRESS OR MAIL ONLY.

## FALL OR EVERBEARING STRAWBERRIES

Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the blossoms are not removed and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

### Mastodon

The Biggest, Best Everbearing Strawberry

Bears Lots of BIG BERRIES  
From August to Freezing

Why be content with the common everbearing strawberries? Try Mastodon. Its a new strain, something new in the Everbearing line that stands out away ahead of the other everbearers in big berries and enormous yields. Great Big Berries (18 to the quart) and lots of them from August until freezing weather. Prices, postpaid, 12, \$2.50; 25, \$4.00; 50, \$7.00; 100, \$12.00.

**PROGRESSIVE**—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted.

**SUPERB**—Another good variety, superb not only in name but in every good quality which goes to make a fine strawberry. Perfect flowering.

**PRICES:** Postpaid, per doz., 50c; 25 plants, \$1.00; 100 plants, \$3.00. Not prepaid, per doz., 40c; 25 plants, 75c; 100 plants, \$2.50; 1000 plants, \$18.00.



**CLARK'S SEEDLING**—The "Hood River Berry"—Best shipper, berries large, of delicious flavor; vines bear large crops; especially adapted to dry soil.

**GLEN MARY**—A bright, handsome standard sort, grown the country over and perfectly reliable.

**WM. BELT**—No berry sufficiently hardy to stand our high elevation is equal to this in flavor. Plants are good sized and productive. A splendid mid-season berry sure to please all who grow it and who like fine fruit. Perfect flowering.

**SENATOR DUNLAP**—Its color is a rich dark red with glossy finish. It has become a very popular variety, perhaps on account of its uniformity. The plants are rather small but strong and vigorous and carry much pollen, which usually insures a heavy crop production. In yield, it compares favorably with any variety.

**MARSHALL**—If you will give this variety the extra care with which it quickly responds, you will have the very largest and most beautiful fruit for your trouble.

Prices, postpaid: 1 doz., 40c; 25, 60c; 100, \$1.35; not prepaid: 1 doz., 30c; 25, 50c; 100, \$1.25; 1000, \$8.50.

**PRICES:** All varieties except where otherwise noted. Prepaid: 1 doz., 30c; 25, 50c; 100, \$1.25; not prepaid: 25, 40c; 100, \$1.00; 1000, \$7.50. Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

## Standard Varieties of Strawberries

Best, Most Uniform and Heaviest Yielding  
Main Crop Strawberry

**"NEW OREGON"** is large, firm and of fine form, averaging 15 to the quart box; color a brilliant, deep, rich red, having a glossy varnished appearance when fully ripe. This dark blood red coloring extends through to the very center, and, no matter how large, **"NEW OREGON"** is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned. **"NEW OREGON"** is an early bearer, being ready for marketing the first half and holds up in size and quality throughout the season, which in some localities extends until frost.

Prices, postpaid: 1 doz., 40c; 25, 60c; 100, \$1.35; not prepaid, 1 doz., 30c; 25, 50c; 100, \$1.25; 1000, \$8.50.

## FERTILIZERS

Spokane Seed Company's Greenpod Brand Fruit and Vegetable Fertilizer will greatly increase your strawberry crop.

Analysis: Nitrogen, 3 per cent; phosphoric acid, 8 per cent; potash, 9.50 per cent. 10 lbs. 50c; 100 lbs. \$3.75; ton \$70.00.

# Miscellaneous Florists' Supplies

FLORISTS AND NURSERYMEN, WRITE FOR SPECIAL PRICE LIST



## Flower Pots

We carry a large and complete line of standard red clay Flower, Fern, Azalea Pots, Bulb Pans and Hanging Baskets and can make prompt deliveries at right prices.

Florists, nurserymen and growers should send list of requirements for Special Prices.

FLOWER, FERN, AZALEA POTS OR BULB PANS ALL SAME PRICE.

Size	Each	Dozen	Saucers Each
2-inch	\$0.02	\$0.20	
3-inch	.04	.40	
4-inch	.06	.60	\$0.03
5-inch	.10	1.00	.05
6-inch	.15	1.50	.08
7-inch	.20	2.00	.10
8-inch	.25	2.50	.12
9-inch	.35	3.50	.20
10-inch	.60		.30
12-inch	1.00		.50

## Clay Hanging Baskets

These are well made and are better than wire baskets, as plants do not dry out so quickly.

8-inch	Each	\$0.40	Doz.	\$4.00
10-inch	"	.50	"	5.00
12-inch	"	.75	"	7.50

## Bird's Neponset Waterproof Paper Flower Pots

These pots can be used over and over for transplanting and similar use. In fact, the pots can be used in every way that earthen pots can. Ideal for transplanting and shipping potted plants. Cost less. No breakage. Hold moisture better. Their use is increasing. Why not try them?

PRICES PER THOUSAND F. O. B. SPOKANE (Wholesale Only)

2 -inch	\$ 5.00	3 1/2 -inch	\$10.75
2 1/2 -inch	6.00	4 -inch	11.50
3 -inch	9.00	5 -inch	21.00

## Wire Hanging Baskets

10 in., 25c; 12 in., 30c; 14 in., 40c. Special Quantity prices.

## Wire Designs

WIRE DESIGNS—For Florists, Achors, Bases, Broken Columns, Broken Wheel, Crescent Wreaths, Crosses, Odd Fellows' Pillows, Shower Wreaths, Shields, Stars, Triangles, Wreaths flat. Tell us what you want and we will supply it. Write us regarding your needs.

## Round Plant Stakes

PAINTED GREEN

Length 3 feet, dozen	\$0.65
Length 3 1/2 feet, dozen	.75
Length 4 feet, dozen	1.00
Length 4 1/2 feet, dozen	1.35

## Bamboo Plant Stakes

Just the Thing for Greenhouse Use

24x1/4 inch, per 100	\$1.00
30x1/4 inch, per 100	1.15
36x3/8 inch, per 100	1.25
48x3/8 inch, per 100	2.00

F. O. B. Spokane

## Wooden Pot Labels

PAINTED WHITE

4-inch—per 1,000, wt. pkd. 4 lbs.	\$2.00
5-inch—per 1,000, wt. pkd. 6 lbs.	2.55
6-inch—per 1,000, wt. pkd. 9 lbs.	2.90
8-inch—per 100, 90c; 1,000	8.00

## Tree Labels

PAINTED COPPER WIRE

Per 100 40c; 1,000, \$2.00

## Glazing Compound

Evertite Black (Write for Prices).

Evertite Natural (Write for Prices).

Glazing Guns.....Each \$7.00

Glazing Points Peerless.....75c M

## Raffia

In ordering Raffia by mail, be sure to add postage on 1 lb. or more.

RAFFIA—Natural color. Price, 1/4 lb., 15c; postpaid, 20c; not postpaid, 1 lb., 30c.

## WIRE

Price subject to change

ANNEALED

No. 18, per 12-lb. stone	\$1.40
No. 20, per 12-lb. stone	1.50
No. 22, per 12-lb. stone	1.60
No. 24, per 12-lb. stone	1.85
No. 26, per 12-lb. stone	1.95

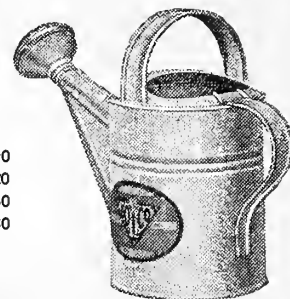
## Bouquet Wire

Cut 12 in. and 18 in. lengths.

No. 18, per box 12 lbs.	\$1.75
No. 19, per box 12 lbs.	1.90
No. 20, per box 12 lbs.	2.05
No. 21, per box 12 lbs.	2.15
No. 22, per box 12 lbs.	2.35
No. 24, per box 12 lbs.	2.90
No. 26, per box 12 lbs.	3.15

## Sprinkling Cans

4-qt. wt., 1 1/2 lbs.	\$0.90
8-qt., wt. 2 1/2 lbs.	1.20
12-qt., wt. 3 1/4 lbs.	1.50
16-qt., wt. 3 3/4 lbs.	1.80



## Plant Sprinkler



For spraying cut flowers and house plants. Each \$1.00, postpaid.



## Bull Dog Clips

BULL DOG CLIPS—If once used, always used. \$1.00 per M.

## Miscellaneous Florist Supplies

Chiffon, 2-inch asst. Colors, 40 yds to bolt.

Chiffon, 4-inch asst. Colors, 40 yds. to bolt.

Chiffon, 6-inch asst. Colors, 40 yds. to bolt.

Chenille, medium white, pink, purple.

Corsage Shields.

Carnation Dye.

Friz Roping.

Gold Script.

Gold Letters.

Gold Numbers.

Purple Letters.

Purple Numbers.

Lycopodium.

Magnolia Leaves.

Match Stakes, 12 inch.

Match Stakes, 18 inch.

Match Stakes, 4-inch green, 3 M to box.

Match Stakes, 4-inch green, 4 1/2 M to box, wired.

Match Stakes, 6-inch, green, 3 M to box, wired.

Moss, Oregon.

Mats, Japanese.

Paper, crepe, any color.

Paper, white wax, 480 sheets.

Paper, green wax, 480 sheets.

Paper, white tissue.

Pins, Greening, 10 M to box.

Pins, Violet, 3 1/2 inches, 250 to box.

Pins, Corsage, 3 1/2 inches, 1 doz. to card.

Pins, Carnation menders.

Ribbons, Empress 1-inch Fiber.

Ribbons, Empress, 2-inch Fiber.

Ribbons, Baby, 50 yds. to spool.

Ribbons, Bon Ton, 500 yds. to spool.

Shears, Florist.

Toothpicks, wired, 10 M to box.

Toothpicks, plain, dozen boxes.

Tin Foil.

Plain, Green or Bronze Aluminum.

Thread, 2-oz. spools.

Write for prices.

All prices on this page  
F.O.B. Spokane

# FERTILIZERS

**SPOKANE SEED CO.'S Fertilizers** are complete fertilizers of the highest grade and concentration. No inferior ingredients or cheap fillers are used in their preparation. Bone Meal and Tankage forming the base, to which is added the necessary Potash, Nitrogen and Phosphoric Acid. Each package is marked plainly, showing the percentage of available plant food.

**SPECIAL FERTILIZER BOOKLET** giving complete details and prices of the different fertilizers which we can supply, together with full information for their application, will be sent on request. This booklet is instructive, reliable and of great value to all interested in fertilizers.

**FERTILIZERS IN SMALL GARDENS**—Amateur garden makers are often puzzled as to the amount of fertilizer needed for their small plots, because the usual directions give only the amount per acre. The following table shows (approximately) the proper proportions:

100 lbs. per acre equals 1 lb. for a plot 10x43 feet.
300 lbs. per acre equals 1 lb. for a plot 10x14 ft.
200 lbs. per acre equals 1 lb. for a plot 10x21 ft.
400 lbs. per acre equals 1 lb. for a plot 10x11 ft.
500 lbs. per acre equals 1 lb. for a plot 10x9 ft.

Applied in quantities of 1,000 lbs. to a ton per acre, our fertilizers, with intelligent culture, will sustain and gradually improve the soil and increase the yield and quality of the product, even though the crop be entirely removed and no other manuring done. The roots, vines, stubble and whatever of weeds or waste there is, all assist in providing the necessary humus. A greater amount is often used to advantage by market gardeners. Complete instructions will be found in our Fertilizer Booklet, sent free. If there is any special information you require, write us; your inquiries will have our prompt and careful attention and our experience may help you.



The Magic Fertilizer in Tablet Form  
These Tablets Are the Last Word in  
Modern Gardening Efficiency

**STIM-U-PLANT** is the only complete plant food in tablet form. The three mineral nutrients most heavily drawn from the soil by growing plants (flower and vegetable) are nitrogen, phosphoric acid, and potash. Because of this fact, **STIM-U-PLANT** tablets are made up of these three in a balanced ration of 11 per cent Nitrogen, 12 per cent Phosphoric Acid, 15 per cent Potash—all of which elements are water-soluble and immediately available to the feeding root-hairs of the plant.

Easy to Use—Immediate Results—  
Directions with Every Package.

This wonderful fertilizer and plant food is odorless—has no obnoxious, messy characteristics. To use, simply insert a tablet in soil near each plant; or dissolve in water at the rate of four tablets per gallon and use as liquid manure. For plants in drills, put tablets a foot apart along row; in beds, a foot apart each way. Complete, easy directions with every package.

30 tablets, 30c each, postpaid.  
100 tablets, 80c each, postpaid.

**S. S. CO.'S GENERAL AND VEGETABLE**—An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops, 10 lbs., 50c; 100 lbs., \$3.25; ton, \$63.00.

Analysis: Nitrogen, 4%; phosphoric acid, 8%; potash, 5%.

**S. S. CO.'S FRUIT and ONION FERTILIZER**—This fertilizer is also used for blackberries, raspberries, etc. We sell large quantities for growing the famous Hood River strawberries. 10 lbs., 50c; 100 lbs., \$3.50; ton, \$68.00.

Analysis: Nitrogen, 3%; phosphoric acid, 8%; potash, 9.5%.

**S. S. CO.'S ODORLESS LAWN and ROSE FERTILIZER**—Promotes a vigorous, healthy growth, giving the desired dark rich green appearance; can be used at the time seed is planted and later as a top dressing. 100 lbs. is sufficient for an ordinary city lot, is far more effective and less objectionable than stable

manure. Remember, it contains no weed seeds. When used as a top dressing it is best to make several light applications about two weeks apart.  
10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$3.50; ton, \$68.00.  
Analysis: Nitrogen, 4.5%, phosphoric acid, 10%.

**SHEEP GUANO**—The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns. 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.00; 100 lbs., \$1.50; ton, \$27.00.

**SUPERPHOSPHATE**—A concentrated form of phosphoric acid, actually the cheapest form in which to buy phosphoric acid. Contains 44 per cent available phosphoric acid. Per lb., 10c; 100 lbs., \$3.75; ton, \$65.00.

**TANKAGE**—Ground meat scraps and bone, desiccated in a vacuum, is very rich in phosphoric acid and nitrogen. Per 100-lb. sack, \$2.50; ton, \$46.00.

**NITRATE OF SODA**—For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop. 1 lb., 10c; 100 lbs., \$4.50; ton, \$85.00.

**FISH GUANO**—Fish cooked, dried and ground is a strong fertilizer, rich in nitrogen, carrying considerable phosphorus and largely used by vegetable growers. We do not recommend this for lawns or city use, as odor is objectionable.

100 lbs., \$5.00; ton \$95.00.

**POTASH—KAINIT** is an imported potash salt containing 12 to 14 per cent of potash. A good fertilizer for all crops except tobacco. 100 lbs., \$3.25; ton, \$62.00.

**MURIATE**—Carries 50% and upwards Potash. 100 lbs., \$4.50; ton, \$80.00.

**SULPHATE**—Carrying 48% actual Potash and no chlorine. 100 lbs., \$4.50; ton, \$80.00.

**LAND PLASTER, OR GYPSUM**—Made from pure gypsum, free from clay or other foreign matter, valuable for clover crops. 10 lbs., 25c; 100 lb. sack, \$1.00; ton, \$17.00.

**BONE MEAL**—Fine ground, is one of the best fertilizers. This is a very valuable enricher of the soil, and one of the most economical at present prices. 5 lbs., 30c; 10 lbs., 50c; 100 lbs., \$3.50; ton, \$65.00.

**BLOOD MEAL**—Blood cooked, dried and finely ground, a quick acting fertilizer; analyzing very rich in effective nitrogen; in fact, the nitrogen of Dried Blood is one of the most effective forms of organic nitrogen known. This also carries some phosphorus; is a strong fertilizer, a little going a long way.  
5 bs., 50c; 10 bs., 60c; 100-b. sack, \$5.00.



## FERTILO

FOR LAWNS AND GARDENS

To have beautiful lawns and flowers it is necessary to feed them regularly just as we feed animals. **Fertilo** is a complete balanced plant food, suitable for lawns, flowers and garden. Odorless, clean, efficient. Nitrogen 5%, Potash 4%, Phosphoric Acid 8%. A new Spokane product.

2-lb. pkg. 40c f. o. b. Spokane  
25-lb. Sacks \$1.75 f. o. b. Spokane  
100-lb. Sacks \$6.50 f. o. b. Spokane  
For the lawn one 25-lb. sack will cover 25x50 feet.

## SULPHUR

DIAMOND "S" BRAND REFINED  
FLOUR SULPHUR

For Lime-Sulphur Solution, Fertilizing  
and General Purposes

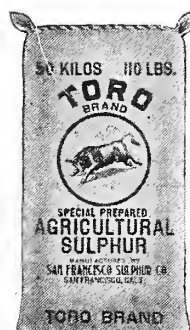
Recent field experiments in the Northwest have demonstrated that sulphur is one of the most valuable fertilizing materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetation, but making available the insoluble potash and phosphoric acid contained in all soils as well as being an effective fungicide and insecticide. Apply one to two sacks per acre.

**DIAMOND "S" SULPHUR**—Finely powdered and 100% pure. Price 110 lbs., \$3.30. Write for Prices in Quantities.

**ANCHOR BRAND VELVET FLOWERS OF SULPHUR**

For Dry Dusting of Trees, Vines, Etc.,  
Bleaching Fruit, Etc.

**IMPALPABLE POWDER**—100% Pure, for Dry Dusting and Making Paste or Wettable Sulphurs. \$5.75 per 110 pounds. Write for Prices in Quantities.



TORO BRAND  
PREPARED  
SULPHUR

To Increase Crop  
Yields, drill into  
the soil 200 to 400  
pounds per acre  
of "T O R O"  
Brand. \$3.50 per  
110 lbs. Write for  
Prices in Quantities.

USE  
**Semesan**

Prices on Fertilizers Are F. O. B. Spokane, Subject to Market Change

# Sprays, Insecticides, Spray Material, Washes

## "CORONA"

### Arsenate of Lead

#### DRY POWDERED

Contains only Arsenic and Lead Oxides. No Fillers.

**MIXES QUICKLY AND EASILY**  
—STAYS MIXED LONGER and STICKS better to leaves, branches and fruit than ANY OTHER Arsenate.

A light, fluffy powder that can not freeze, dry out, cake or lose its strength—carries the highest possible percentage of arsenic oxide, 33%—is always uniform and requires only one pound to 50 gallons of water. Efficient, economical and convenient. Highest percentage of killing power. Prices, ½ lb., 25c; 1 lb., 45c; 4 lbs., \$1.00; 1 case, 12-4 lb. pkgs., \$10.00, F. O. B. Spokane.

Write for latest quantity prices.

**FOR DUSTING—"CORONA" DRY** used as a dust spray is a safe, inexpensive, easily applied and efficient remedy for all chewing garden pests—and for use on fruit trees, berry bushes and plants—that will insure perfect fruit and clean vegetables.

"Garden Pests and their Control" and full information about "CORONA" mailed on request.

**TOMATOES**—For tomato worms, flea beetles, etc., make first application two weeks after setting out the plants.

**CUCUMBERS**—All chewing insects that injure cucumbers are quickly destroyed by dusting leaves and stems above and below. Corona Dry will not burn the foliage as Hellebore does.

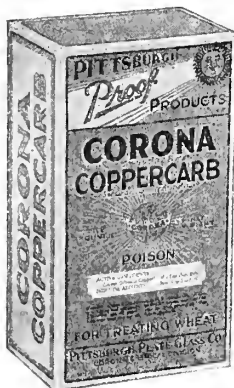
**POTATOES**—Corona Dry is fatal to flea beetles and all chewing insects that damage the foliage. Mixed half and half with Dusting Sulphur will control and prevent early blight.

**CABBAGE, CAULIFLOWER AND KALE**—To control cabbage worms, dust about 10 days after plants are set and as often as necessary until they begin to head. Do not use any poison on plants after they start to head.

**SWEET CORN**—The corn ear worm develops from an egg on the new silk or husk and feeds on the silk, following it into the ear. "Corona Dry" gives absolute control of this pest. Thoroughly dust the new silk as soon as it appears.



## Corona Coppercarb



Important changes have been made in the treatment of seed grains for the control of bunt, stinking smut, etc. The new way consists of dusting the grain with copper carbonate. It will supplant the commonly known and very distasteful formaldehyde method because the copper dust gives successful results in the control of the diseases, but

does not in the slightest degree hurt germination, and at the same time relieves the farmer of a most irksome task.

Treating the grain with Corona Coppercarb can be carried out by a shoveling over process. The operation is very simple and does not require much time. A common bbl. churn will dust a large quantity of seed.

This simple dusting method with Corona Coppercarb, or even with a concentrate, means a lot to the farmer who is riding the drill from daylight to dark and has been obliged in the past to treat the grain sometime during the late evening or perhaps at night. It will eliminate forever the tedious (almost man-killing) effort of the sloppy formaldehyde process.

Use 2 to 4 ounces per bushel of seed. Price, 5 lbs., \$1.25; 25 lb. pkg., \$6.25, F. O. B. Spokane.

## Corona Scale-Proof

Oil sprays have shown that scale, as well as aphids eggs, eggs of the European Red Mite and those of the Leaf-Roller, can be killed without any trouble and the trees be given a general cleansing which they can get in no other way.

### DIRECTIONS FOR MIXING AND SPRAYING

**DORMANT SPRAY**—Use Corona Scale-Proof, one part to twenty parts of water and cover with a fine mist every branch and twig to the very tip, where the scales usually congregate. One thorough application should be sufficient. This strength will not injure any tree or shrub which drops its leaves in winter. It is best to make spring applications before the foliage appears, and only when the temperature is above 40° Fahr. because of the danger and damage by freezing through rupture of the delicate cells in the under bark.

Price, qts., 65c; gal., \$1.35; 5 gal., \$5.50; ½ bbls., 25 gal., \$10.75, F. O. B. Spokane.



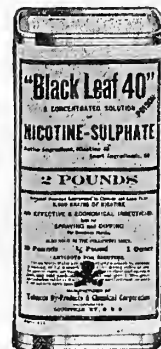
### A SUCCESSFUL REMEDY FOR CABBAGE MAGGOT

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. ½ pt., 50c; pt., 85c; qt., \$1.25; gal., \$3.00, postage extra.

## \*Black Leaf 40

### 40% Nicotine

Destroys Aphids, Thrips, Leaf Hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-shelled sucking insects—all without injury to foliage. Combines readily with other sprays. 1 oz., 6 gals., spray, 35c; ½ lb., 40 to 120 gals. spray, \$1.25; 2 lbs., 160 to 500 gals. spray, \$3.50; 10 lbs., 800 to 2500 gals. spray, \$13.50. Not available. Prices F. O. B. Spokane.



## "Nico-Fume" Tobacco Powder

Tobacco Powder impregnated with a high strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphids, Thrips, etc. Fill an ordinary 2½-inch flowerpot heaping full of the "Nico-fume" Powder, pour the powder out on the bare ground or cement walk in a narrow pile about 7 inches long. For moderately rapid fumigation light the pile at the one end, for extra rapid, light both ends. Use a pile to each 5,000 cubic feet of air space. Place piles at equal distance apart. 1 lb. can, \$1.25; 5 lb. can, \$4.75; 10 lb. can, \$8.50. F. O. B. Spokane.

## "Nico-Fume" Liquid

For fumigation and spray for greenhouse work. Kills Aphids, Red Spider, Mealy Bug, Thrip, etc. 1 lb. can, \$2.25; 4 lb. can, \$8.00; 8 lb. can, \$15.00. F. O. B. Spokane. Not available.



## BORDEAUX

**DRY BORDEAUX MIXTURE**—When mixed with cold water in the proportion of 9 lbs. to 50 gallons, gives a standard Bordeaux Mixture. Keep in a tightly closed package. Price, 1 lb., 45c; 5 lbs., \$1.50.

## Dry Lime Sulphur

Controls all scale and fungus diseases for which Lime-Sulphur Solution is recommended. More convenient to handle and saves freight on water. Put up in air-tight packages which should be used when opened. For Winter spray use ten to fourteen pounds to fifty gallons of water. For Summer in combination with Arsenate of Lead use two to three pounds to fifty gallons of water.

Price: 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75; 25 lbs., \$3.00; 100 lbs., \$9.50 F. O. B. Spokane.



# Sprays and Insecticides—Continued

## Volck The Scientific Insecticide



Effective in control of mealy bug, scales, rust mite, red spider, white fly, aphids, codling moth and many other insects. It prevents mildew. It is safe to use on flowers or foliage even in hot weather and is easy—even pleasant—to use. It can readily be combined with Bordeaux mixture or with nicotine sprays for combination results. Packed in pints, quarts, gallons, five-gallon cans, and in 14-gallon and 28-gallon drums. Small cans available. Half pints 40c; pints 55c; quarts 90c; gallon \$2.25, F. O. B. Spokane. Write for prices in larger lots.



## DU PONT Semesan Semesan Jr. Semesan Bel

### The Premier Seed Disinfectants

Control Diseases, Increase Yields, Improve Quality

**SEMESAN**—This modern disinfectant can be applied in either the liquid or convenient dust form to prevent or control effectively a most diversified variety of parasitic diseases and fungoid growths borne by seeds, seed pieces, plants, grafts and soils. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. It generally also hastens germination, produces sturdier plants, promotes earlier maturity and increases both the quantity and quality of crop yields.

**SEMESAN JR.**—A less expensive but equally effective form of Semesan for the dry dust disinfection of both field and sweet corn seeds against the ear, root and stalk rots. Under Government-conducted field tests, Semesan Jr. successfully prevented or controlled these diseases and at the same time increased the yields obtained from diseased seeds by 10 to over 40%.

**SEMESAN BEL**—Applied to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture, Semesan Bel will prevent or control the common seed-borne potato diseases. In widely separated potato-growing sections it has caused quicker sprouting, earlier maturity and greater yields.

#### PRICES FOR DU PONT SEMESAN

2 ozs. ....	.50	5 lbs. ....	\$ 13.00
8 ozs. ....	1.60	25 lbs. ....	62.50
1 lb. ....	2.75	50 lbs. ....	122.50

#### SEMESAN JR. AND SEME- SAN BEL

1 lb. ....	\$ 1.75
5 lbs. ....	8.00
25 lbs. ....	37.50

Free Descriptive Booklet Sent Upon Request

Semesan Disinfectants Make Good Seeds Grow Better

## For Effective Economical GREENHOUSE FUMIGATION



## CYANOGAS G-Fumigant

This modern fumigant is the cheapest and the best. CYANOGAS G-Fumigant is the easiest to use—simply scatter on the walks of the greenhouse.

It kills Aphids and White Fly 100%—on the principle of low concentration over an extended period (over night). A small amount of material is required and the labor cost is negligible. That is why many growers are saving 75% of fumigating costs by using CYANOGAS G-Fumigant.

1 lb. 60c; 5 lbs. \$2.50; 25 lbs. \$9.10.

"IT'S THE GAS THAT KILLS THEM"

**GRAFTING WAX**—1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 45c. Add postage at zone rate.

**BLUESTONE**—(Vitrol)—Lb. 10c; per 100 lbs., market price. Not available.

**PARIS GREEN**—(Lion Brand)—The standard of purity. Guaranteed superior to other makes. Price, 1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 45c. Not available.

**FISH OIL SOAP**—For aphids, plant lice, etc. 1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 45c; postage extra.

**TOBACCO DUST**—1/2 lb. 10c; 1 lb. 15c; 5 lbs. 50c. F. O. B. Spokane. Not for poultry use. Poultry Tobacco Dust, see page 69.

**LEE'S GARDEN INSECTICIDE**—(Non poisonous)—This is a new addition to the famous "Lee Line" of insecticides. We recommend "Lee's Insecticide" as one that is suited to the needs of the average gardener, and one that is guaranteed to give satisfaction. 1-lb. sprinkler top can, 30c; 2 lb. sprinkler top can 50c. Postage extra.

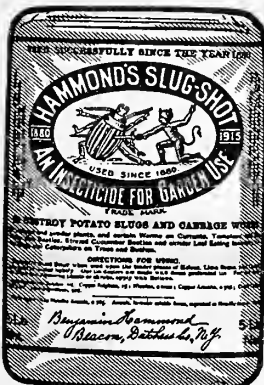
## Formaldehyde

Will Prevent Oats Smut, Stinking Smut of Wheat, Barley Smut and Leaf Stripe

Use one pint formaldehyde in 40 gallons of water for wheat and barley.

Spray oats with one pint formaldehyde in 10 pints of water. For Potato Scab soak the potatoes for two minutes in a warm solution (118° to 122° F), one pint in 15 gallons of water; small lots on the stove in wash-boiler; larger lots in tank heated with tank heater and large lots in tank heated by steam from tractor or other boiler. Full directions on application.

Pts., 60c; Qts., \$1.10; Gal., \$3.25. Cannot be mailed.



**HAMMOND'S SLUG SHOT**—For destroying slugs, cabbage and turnip flea, currant worms, etc. 1-lb. pkg, 25c; postpaid 30c; 5-lb. pkg. 75c, postpaid 90c.



**HAMMOND'S GRAPE DUST**—To prevent mildew on roses, grapes and gooseberries. 1-lb. pkg. 25c; postpaid 30c; 5-lb. pkg. \$1.00, postpaid \$1.15.



**TREE TANGLEFOOT**—For caterpillars, moths and worms. Protects against all climbing insects. One pound makes a band 9 feet long. Price, 1 lb. 60c; 5 lbs. \$2.75; 10 lbs. \$5.25.



# ORCHARD SUPPLIES

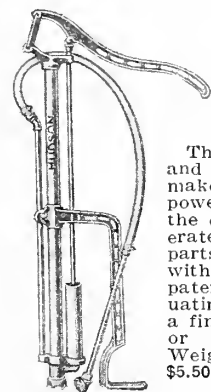


## Perfection Hudson

4 gallon approximate capacity. Size 20x7½ inches. Pump is 1¼x15 inches of brass tubing, brass valve. Malleable handle and fittings will not break. Ship. wt. 10 lbs.

With galvanized tank.....\$6.50  
With brass tank..... 9.00  
F. O. B. Spokane.

## Hudson Marvel Spray Pump Lever Handle

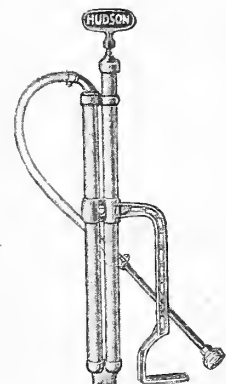


The lever handle and large air chamber make this the most powerful pump and the easiest one to operate. All working parts are solid brass with brass valves and patent agitator. Graduating nozzle to throw a fine or coarse spray or a solid stream. Weight, 8 lbs. Price \$5.50; add postage.

## Double Cylinder

### MOHAWK

All operation is on the down stroke which tends to steady and hold pump down. Continuous spray. Solid bronze ball valves, all working parts brass, non-corroding. With hose and nozzle. For fine or coarse spray. Weight 7½ lbs. Price each \$4.00. F. O. B. Spokane.



## Junior Hudson

2½ gallon approximate capacity. Size 16x6 inches. Made the same as the Favorite except smaller and lighter to carry about. A popular size. Shipping weight 9 lbs.

With galvanized tank.....\$5.25  
With brass tank..... 8.25  
F. O. B. Spokane.

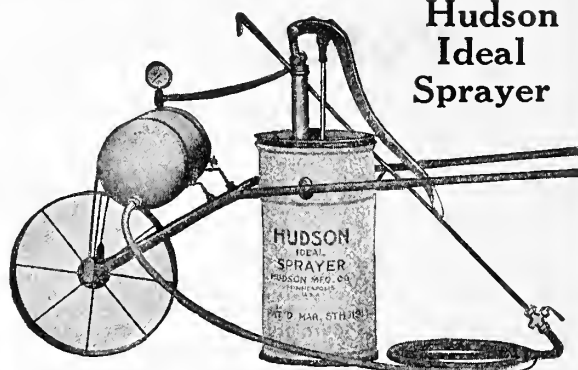
## Modoc Spray Pump



The Modoc is a double acting high pressure spray pump of large capacity. It will develop 150 pounds pressure at the nozzle. Can be used with any bucket or small tank. Valves and plunger can be removed with common wrench for cleaning or inspection. All parts except the handle and foot-rest are brass, so that the working parts can not corrode, rust or get out of order.

It may be used in many ways, such as spraying fruit trees and vines, garden truck, ornamental shrubs, for whitewashing, disinfecting, washing wagons, windows, etc. Will handle all solutions. Throws a solid stream for putting out fires, sprinkling lawns, etc., when the two-hole disc in nozzle is removed.

Price, Each \$3.75.  
F. O. B. Spokane.



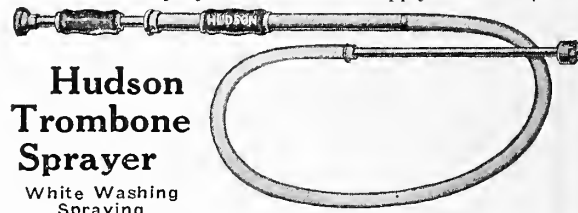
## Hudson Ideal Sprayer

This Hudson Ideal Sprayer is a one-man outfit. It is equipped with a reserve air pressure tank and gauge, which enables the operator to maintain a high, even pressure with less effort. Or he can stop pumping and spray several minutes before the pressure is reduced to a point where further pumping is necessary.

Pump is our regular No. 4 Barrel pump, fastened in top of tank by pressed steel support. Tank is heavy brass or copper bearing galvanized sheet, reinforced at top and bottom with channel iron hoops. Capacity 15 gallons. Air pressure tank is boiler iron with welded joints. Tested under working pressure of 275 pounds. Frame is heavy steel tubing, reinforced by channel iron cross braces. Wheel is 18 inches diameter, with 2½-inch tire. Discharge equipment consists of 6 feet of ¾-inch spray hose and 4-foot ¼-inch extension rod—total 10 feet; leakless shutoff valve and Ideal spray nozzle.

Standard Package—One in a crate. Shipping weight 105 pounds. F. O. B. Spokane.

No. 33—Ideal Sprayer—Galvanized Supply Tank.....\$40.00

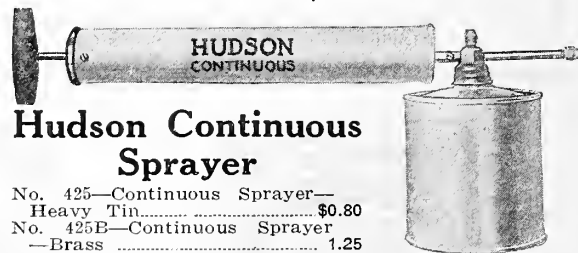


## Hudson Trombone Sprayer

### White Washing Spraying

The Hudson Trombone Sprayer is a high pressure spray pump adapted for spraying orchards, vineyards, shrubbery, shade trees, potatoes and field crops; for whitewashing, disinfecting, spraying stock dip and fly oils, washing windows and automobiles, fighting fires and numerous other purposes. It is double acting, maintaining a steady discharge without undue exertion on the part of the operator. May be used with a bucket, barrel or tank. Fitted with all-purpose nozzle, which produces any desired type of spray from fine fog to a solid stream. Standard Package—One each in a heavy fibre carton. Shipping weight 3½ pounds.

No. 123—Hudson Trombone Sprayer.....\$5.75  
F. O. B. Spokane.



## Hudson Continuous Sprayer

No. 425—Continuous Sprayer—Heavy Tin.....\$0.80  
No. 425B—Continuous Sprayer—Brass..... 1.25  
No. 425G—Continuous Sprayer—Galvanized..... 1.00  
Add postage.



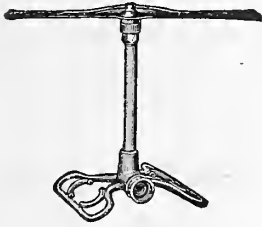
## For Poultry

### MANY-USE

This sprayer was designed principally for spraying chicken houses, coops, hen's nests, perches, etc. The ordinary sprayer with the tank mounted across the pump is often inconvenient to use in narrow places, but with this model the end of the pump can be inserted into small places not accessible to the other type. It is strongly made and durable. Price, Each 50c; Postpaid 55c.

# Sprayers—Sprinklers—Hose and Couplings

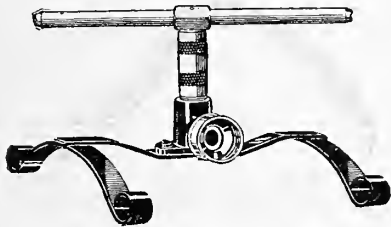
## Whirling Fairy Sprinkler



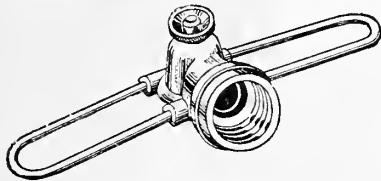
Runs at a low pressure. Will cover a 50-foot circle. Never out of order. Each \$1.75. Weight 3 lbs.



BUSY—A regular water flirter, runs easy. Wt. 2 lbs. Price \$1.25.



"RAIN INSURANCE"—Throws a fine spray 40 to 50 feet, revolves fast on any pressure. Wt. 2½ lbs. \$2.50.



No. 119. No. 119—Can be moved about the lawn without tipping. Wt. 2 lbs. Price \$1.00.

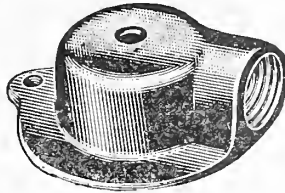


CRESCENT SPRAYER—Price \$1.00, postpaid \$1.10.

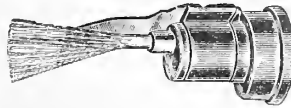


### THE GENUINE FOUNTAIN

It sprinkles round; no moving parts to get out of order. Very simple and more beautiful than a Fountain and more efficient than a shower. Each 85c.



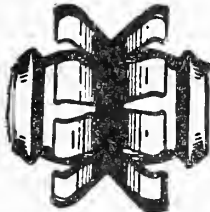
C. B. G. SPRINKLER—"Cheap but Good." Is deservedly very popular on account of low price. Price 35c, postpaid 45c.



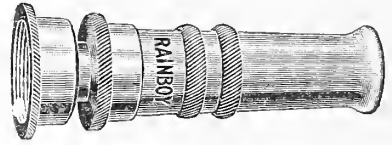
CHAMPION NOZZLE—Two in one combination nozzle and sprinkler, the water volume is as great with spray as with solid stream. There is no shut off and, therefore, no back pressure on the hose. Spray is graduated by the revolving sprayer plate. Price 50c, postpaid 60c.



"PERFECT CLINCHING" HOSE COUPLINGS—Slip it in the hose and hammer down—that's all. A self-fastening coupling that does not require extra bands, bolts, or wires. It adjusts itself to any thickness of hose. A fixed hold—it will not pull off. It cannot turn within the hose, a great gain over other couplings. A smooth joint with no projecting parts. A perfect joint that cannot leak. The harder the pressure, the tighter it gets. The tough brass in the clamping fingers permits taking off and using again. Strong and durable at every joint. ½, ⅝ or ¾ inch. State size wanted. Price, 25c; postpaid 28c.



PERFECT CLINCHER HOSE MENDER—No wiring, no screws, no tools needed except a hammer; no obstruction in the hose; a boy can use them and make a perfect mend, a one-piece article which does the work of the mender and tube and two clamps ordinarily used. ½, ⅝ or ¾ inch. State size wanted. Price, each, 10c; postage 10c per dozen extra.



RAINBOY SPRAY NOZZLE—The brass nozzle for hand use; will throw a straight stream also fine or coarse spray, and the shut off is positive, without the possibility of leakage, recommended by all. Price 80c, postpaid 85c.

## GARDEN HOSE

Sterling; Corrugated; Black Cover

High quality rubber tube and tough corrugated rubber cover insures utmost resistance to rough handling; adapted for lawns, vegetable gardens and green-houses. Plies of fabric are braided on to the rubber tube, making hose endless and seamless; will not kink and withstands the heaviest pressure.

In Coils; with Couplings

Can be supplied in 25 and 50 ft. lengths in ⅝ in. and ¾ in. sizes. Price per foot, ⅝ in., 15c; ¾ in. 16½c.



"ROSE" OR "BOSTON" SPRINKLER—A good serviceable, low priced sprinkler, throwing the well known rose spray. Works well on either high or low pressure. Made of brass with a heavy cast brass base. Price 95c, postpaid \$1.00.



HALF CIRCLE FOUNTAIN—It sprinkles a semi-circle; not necessary to shut off the water to move about; gives mist-like spray. Each 50c; postpaid 55c.



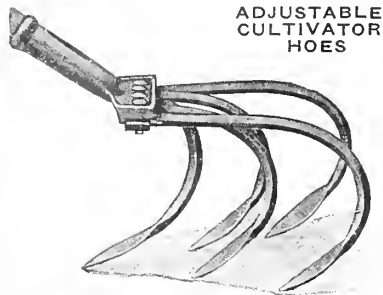
BABY FOUNTAIN, Each 60c  
It sprinkles square; gives a fine mist-like spray.

## Hudson Powder Sprayer



This Hudson Powder Sprayer is very popular for use in the home to exterminate Roaches, Ants, Bed Bugs, etc. Will handle all dry powdered insecticides very satisfactorily. Price 65c, postpaid.

# Hand Weeders, Hoes, Trowels, Rakes, Sickles, Shears



ADJUSTABLE  
CULTIVATOR  
HOES

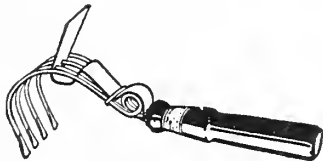
Like a human hand, the fingers of the "Hall" work closely around the plants without injury. Keeps down weeds, saves moisture, leaves the ground level. 4-foot handle.

**FIVE PRONG** for regular garden work; weight 4 lbs. Price \$1.25.

**THREE PRONG** for narrower rows and close work; wt. 3 lbs. Price \$1.00.



**IDEAL WEEDER**—A very popular style of hand weeder. Each 40c, postpaid 45c.



**MAGIC WEEDER—D**—A very handy tool for use among flowers and small vegetables. Destroys the weeds and leaves the earth about the roots themselves. Price 45c, postpaid 50c.



**MAGIC A**—3 tines spring steel; wt. 1 lb. Each 20c, postpaid 25c.

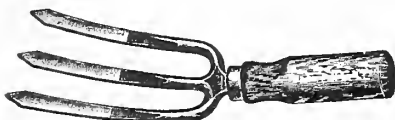


**MOE'S HAND WEEDER**—One of the handiest tools yet devised for weeding and thinning out. Each 20c, postpaid 25c.



MOE'S LINE

**MOE'S STEEL GARDEN WEEDERS**—No. 82—Garden Weeder. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers and is one of the most useful and handiest garden tools made. Ground and polished points. Each 20c, postage 25c.



**SPADING FORK**—No. 30—Forged steel, 3 tine, 11 in., wt. 1 lb. Each 50c; postpaid 60c.

## Trowels



MOE'S LINE

No. 80—Garden Trowel, one-piece pressed steel; handsomely finished in black baked enamel; length of blade 6 in.; ground and polished points. Each 20c, postpaid 25c.



MOE'S LINE

No. 81—Transplanting trowel; one-piece pressed steel; handsomely finished in black and baked enamel; length of blade 6 in.; width 1 1/4 in.; ground and polished points. Each 20c, postpaid 25c.



No. T20—6-inch rolled steel, riveted blade, half polished and green enameled; malleable tang. Each 25c.



No. T10—6-inch heavy crucible steel forged one-piece, half polished and green enameled blade; wrought ferrule; hardwood handle. Each \$1.00.



No. T15—6-inch one-piece crucible steel blade and socket, half polished and green enameled; 8 1/2-inch handle. Each 60c.



No. T22—Six-inch bright steel blade; malleable shank. Each 25c.



No. T25—6-inch; transplanting; one-piece heavy rolled steel. Each 20c.



No. 2—FORGED CORN KNIFE—Crucible tool steel, anvil finish; length of blade 16 1/2 inches; extreme width 1 3/4 in.; stained Maple handle. Each 75c.

## Asparagus Knife



Has long shank and blade for cutting the tips below the surface. Price 45c, postpaid 55c.



**HEDGE SHEARS**—Useful in trimming shrubs, small bushes and trees; also preferred by many for edging lawns and beds. Blades are polished solid cast steel. 8-inch blade, per pair \$2.25; postpaid \$2.50.

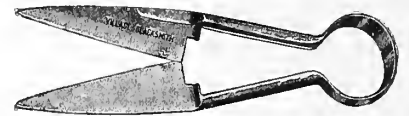
## Grass Shears



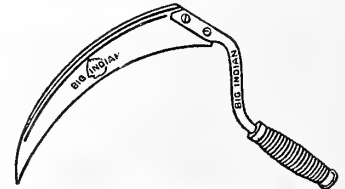
VILLAGE BLACKSMITH BRAND

6-inch hollow ground blades, clean cutting. Full polished. Weight 1 lb.

No. V51—With trowel shank, pr. \$1.00  
No. V1—Without trowel shank, pr. 85c



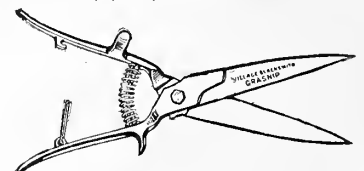
No. 31—Red enameled spring and handle, price 55c  
Add postage on parcel post orders.



No. 1 BIG INDIAN—Scythe Pattern; tempered crucible steel blade polished; heavy aluminum bronzed malleable shank; corrugated green enameled handle. A tool of best quality. Each 75c.



No. 1—Forged, tempered and ground sharp; hammer finish; beech handle. Each 60c., postpaid 65c.



No. 1 GRASNIP—A practical all-around shear for grass, vines, light shrubbery, etc.; 6 inch. Cutlery steel blades; malleable red enameled hand grip; 12 inches over all. Price \$1.25.

## "All-Purpose" Rake



For Dandelion, Garden or Lawn.

Unequalled for removing yellow dandelions. When it is pulled across the lawn, stems, leaves and blossoms are wedged between its teeth and easily pulled out. Also a first-class rake for general work; will clean the lawn of cut grass and dead leaves in better shape than is possible by any other means. It is self-cleaning. A single backward stroke cleans the rake. Each \$1.00.

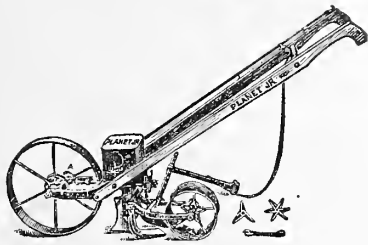
## Berry Hook



No. 99—3 1/2-ft. handle. Hook of good quality steel. Used in cutting out dead berry bushes—and similar work. Each \$1.00.



# Planet Jr. Garden Tools



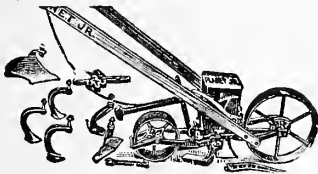
## Planet Jr. No. 26 Drill Seeder

*"A New Drill Seeder for All Soils"*

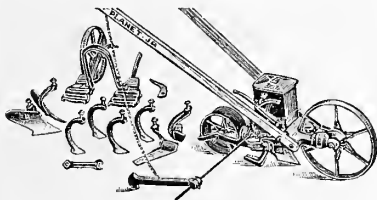
A SEEDER FOR ALL TYPES AND  
CONDITIONS OF SOIL

The extra substantial, wide-tread wheels, front and rear, are not only EASIER RUNNING, but cover MORE EVENLY than you have ever before seen. This is particularly important on light, spongy, muck soils, and in sandy soils. But in any soil there are likely to be "hard spots" and mellow spots where any drill, except the No. 26, will either "ride" or sink in a little, causing shallower or deeper covering of the seed, and subsequent uneven germination.

You will be surprised and pleased with the easy straight running and the perfect opening and covering done by the No. 26. Weight 61 lbs. Price \$20.00.

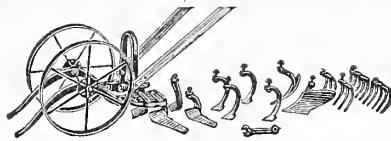


No. 4 PLANET JR. COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW—Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds. (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily. Weight 50 lbs. Holds 2 quarts. Complete, price \$18.00. Seeder only, price \$14.25.

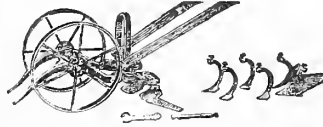


No. 25 PLANET JR. HILL AND DRILL SEEDER, DOUBLE AND SINGLE WHEEL HOE—A splendid combination for the family garden, onion grower, or large gardener. It is a perfect seeder, and combined double and single wheel hoe; weight 60 lbs. Price \$21.50.

No. 3 PLANET JR. HILL AND DRILL SEEDER—A favorite among onion growers, market gardeners and seedsmen. The index and seed cut off rod is conveniently placed at the top of the handle. Holds 2 quarts. Weight 43 lbs. Price \$17.50.

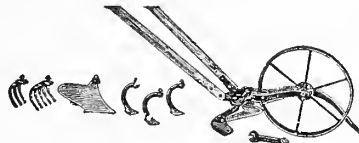


No. 11 DOUBLE WHEEL HOE CULTIVATOR, PLOW RAKE—These Double Wheel Hoes are the highest type of machine of this kind made. Light and durable—can be used by man, woman or boy. Weight, 39 lbs. Price \$13.75.

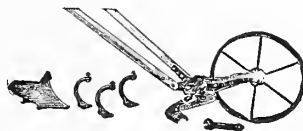


No. 12—PLANET JR. DOUBLE WHEEL HOE, CULTIVATOR AND PLOWS—A single and double wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world. Weight, 33 lbs. Price \$10.75.

No. 13 DOUBLE AND SINGLE WHEEL HOE—This is the No. 12, with 6-inch hoes only, these being the tools that are most used. Weight, 28 lbs. Price, \$8.00.



No. 16—SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW—Used mostly between the rows, yet by mounting wheel on other side of arm can be used to hoe both sides at once while plants are small. Weight, 26 lbs. Price \$9.00.



No. 17—SINGLE WHEEL HOE—Has a most useful set of attachments. Scarcely any garden cultivation it will not do. Weight, 24 lbs. Price \$7.75.

No. 17½—Same type as No. 17—One pair of 6-inch hoes and three cultivator teeth. Price \$6.75.

No. 18—Same type as No. 17—Has one pair of 6-inch hoes only. Price \$5.75.

## Cultivating Attachments



PLOWS  
Plow for Single Wheel Hoes. Each \$1.50.



TEETH  
Cultivator Teeth. Each 40c.



PloWS for Double Wheel Hoes. Pair \$1.50.



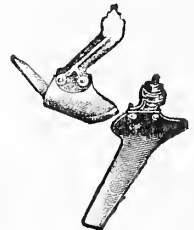
Three Prong Cultivator Teeth. Pair \$2.25.



Double Mould-board Plow for Single Wheel Hoe. Each \$3.00.



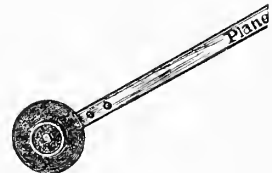
DISC HOES  
With high dirt shield. Price \$3.50.



RAKES  
For Fine Cultivation.

3-tooth, pair...\$1.50  
5-tooth, pair... 2.00  
7-tooth, pair... 3.00

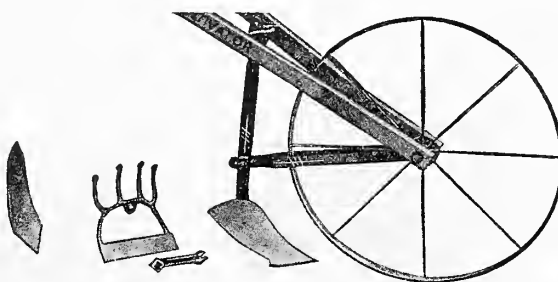
HOES  
S100 and S101 Hoes, made in two sizes.  
Size Pair  
4½ inch...\$1.20  
6 inch... 1.30



PLANET JR. GRASS EDGER—With the No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick, rapidly and easily. Weight 4 lbs. Add postage when ordering by parcel post. Price \$1.60.

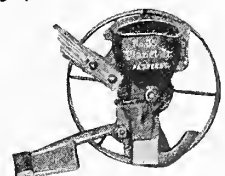
## Garden Plow and Cultivator

HALL NO. 3



Large 24-inch wheel, strong frame, complete with plow, hoe, rake, cultivator and wrench. Weight without seeder 25 lbs. Price without seeder \$4.50.

Price complete with Mid-get Drill Seeder attached. Price \$8.50. Midget Seeder only \$4.25.



# SEEDERS AND PLANTERS

## The Clipper Grain and Seed Cleaner

Used by all Agricultural Colleges and by the U. S. Department of Agriculture.

No work done on the farm brings such large returns as thoroughly preparing the grain and seed by recleaning and grading for planting. This insures an even stand of strong, healthy plants, and a larger yield of a higher grade. The "Clipper" cleaner is especially adapted to this kind of work on account of its ability to separate the small, also the light, dead seed or grain from the perfect seed or grain.

Other mills depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper" screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest.

Screens are so arranged as to be in plain view and of easy access to the operator while machine is in operation, and a set of ten being furnished with either the No. 1B or No. 2B. These are ample for general work—but special screens can be furnished for any cleaning operation.

Guaranteed to do the most perfect work of any Hand Seed Cleaner manufactured. The "Clipper" is a first-class, inexpensive and durable mill for general use.

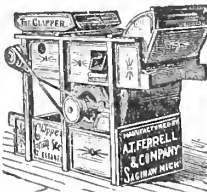
No. 1B—Capacity 20 bu. Grain or 10 bu. Seed per hour \$44.00

No. 2B—Capacity 25 bu. Grain or 15 bu. Seed per hour.....\$5.00

No. 6—POWER MILL. Capacity 200 bu. Grain or 35 bu. Seed per hour. Write for prices.

No. 16—POWER MILL—Capacity 200 bu. Grain or 35 bu. Seed per hour. X

F. O. B. Spokane. Write for Prices and Catalog. We can also supply Clipper Power Cleaners of large or small capacity for any purpose.

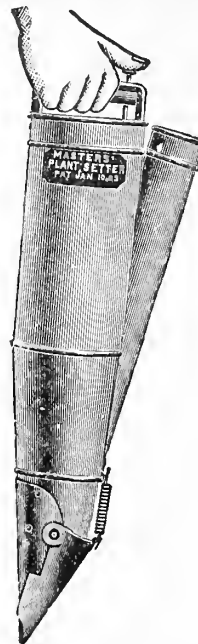


## Master's Plant Setter

With a "Master's" you can set, water and fertilize 10,000 plants a day and do better work than if set by hand. Works as fast as you walk. Sets cabbage, kale, celery, tomatoes and vegetable plants of all kinds.

THE OPERATION is very simple. Haul out a few barrels of water to convenient places on the headlands (about two barrels per acre is usually enough.) Mark off your land in rows both ways. Have your plants pulled and in boxes at the water barrels.

Have a small grape or peach basket tied around your waist in which to carry the plants. Take the setter in your right hand and have it nearly full of water. Start down the row, putting in a plant at every mark clear across the field. Fill up your basket at the end of every row, also your Setter with water, and thus keep going back and forth all day. Weight, packed, 5 lbs. Price \$5.50 each, f. o. b. Spokane.



## Broadcast Seed Sowers



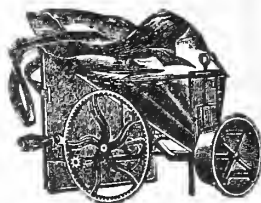
**CYCLONE**—Save Valuable Seed—It is like throwing money away to sow more seed than is necessary. Uneven seeding is just as wasteful. With the Cyclone Broadcast Seeder you can sow any kind of seed perfectly even over the ground at the rate of fifty acres per day and any desired amount per acre. It will pay for itself in the saving of a few hours' work. Each \$2.50.

**TIN HORN SEEDER**—Adjustable. A good serviceable seeder at a very low price. Weight 1 lb. Each \$1.00.

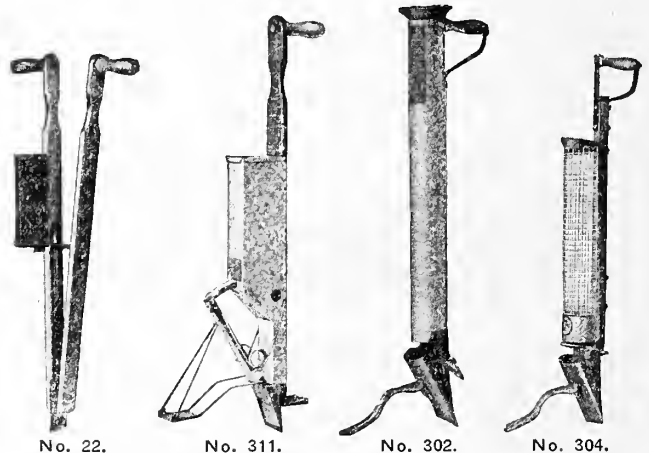
**WHEELBARROW SEEDER**—The Thompson Wheelbarrow Seed Sower is light, strong and accurate. Covers the ground rapidly and evenly. Is not affected by the wind, as it runs close to the ground. Send for descriptive circular. Price, 14-foot spread, steel wheel, \$13.00.

## Cahoon

The standard broadcast seed sower of the world, made of steel, iron and brass and with ordinary care will last a lifetime. This is the most popular and best built seed sower, has a force feed and does excellent work. Instructions with each machine. Weight 9 lbs. Price, \$4.50.



## CORN AND POTATO PLANTERS



**ACME CORN PLANTER No. 22**—Works in any soil; has a flexible and adjustable iron drop and does not wear the brush. It has an iron seed box and iron channel. Strong, durable, reliable and gives universal satisfaction. Each \$1.25, postpaid \$1.40.

**SEGMENT CORN PLANTER No. 311**—(See illustration). An all metal planter which is operated by a spring with the foot; strong, reliable tool. Each \$2.00, postpaid \$2.20.

**ACME POTATO PLANTER No. 302**—A very handy tool, with jaws of crucible steel, points polished, galvanized iron, taper conveying tube, natural finish. Height 36 inches. Price \$1.75, postpaid \$2.00.

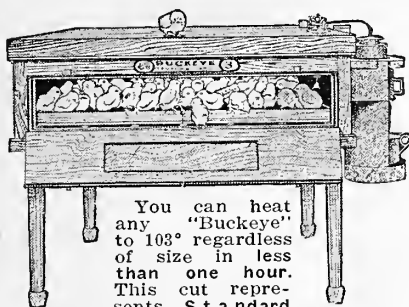
**POTATO PLANTER No. 304**—A light tubular planter. Its spring closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever is adjustable for any depth of planting. See cut. Price \$1.75, postpaid \$2.00.

**PINGREE or ACME—(14)**—Similar in action to the tubular. You lift the planter up to drop in the potato. Weight packed 4 lbs. Price \$1.35.





## BUCKEYE HOT WATER INCUBATORS



You can heat any "Buckeye" to 103° regardless of size in less than one hour. This cut represents Standard Machine.

Maintains its temperature in any location, from freezing weather up to 100 degrees, and once adjusted will not vary.

The unprecedented success which has followed the Buckeye for twenty-five years is primarily due to the invention of the Buckeye hot-water system, without which that perfect balance between the temperature, moisture and ventilation which is necessary to successful incubation, would be a physical impossibility. Heating the egg chamber without cooking all moisture out of the air is responsible not only for the abundant supply of natural moisture but at the same time the soft, radiated heat from the hot water tank provides an absolutely uniform temperature and permits the perfect ventilation of the egg chamber.

The temperature of every Buckeye built is guaranteed to be uniform within a fraction of a degree at all times in the egg tray. The regulation of temperature is purely automatic and needs no watching. You set the regulator when the hatch is started and do not touch it again until the next hatch.

The incubator can be operated in any temperature regardless of sudden changes. Regardless of size or price, we guarantee every Buckeye to work satisfactorily in any temperature down to freezing. No previous incubator experience is required to operate a Buckeye. Outside of filling the lamp and turning the eggs, everything is automatic and requires no attention from the operator.

### PRICES F. O. B. SPOKANE

Size	Style	Weight	Price
No. 14—65-egg,	sgl. wall, short legs	55 lbs.	\$18.00
No. 16—110-egg,	sgl. wall	85 lbs.	30.75
No. 17—210-egg,	sgl. wall	125 lbs.	40.50

Ask for complete Buckeye catalog. Free on request.

Size	Style	Weight	Price
No. 1—110-egg,	Standard	110 lbs.	\$41.00
No. 2—175-egg,	Standard	135 lbs.	48.25
No. 3—250-egg,	Standard	200 lbs.	62.50
No. 4—350-egg,	Standard	230 lbs.	73.75
No. 5—600-egg,	Standard	325 lbs.	116.00

### "BUCKEYE" INCUBATORS—PRICE LIST OF EXTRA PARTS

Thermometers for Incubators (Tested)	\$1.00
Thermometer Holders for Incubators	.15
Lamp Bowl for all Incubators	1.00
Lamp Burner No. 2 (will fit Style A, B and C, Standard 110, 220)	.50
Lamp Burner No. 35 (will fit No. 60, No. 1, No. 2, Style E, H)	.75
Lamp Burner No. 50 (will fit Incubators No. 3, No. 4 and No. 5)	1.00
Lamp Burner No. 3	.75
Lamp Chimneys for all Incubators	.50
Lamp Wicks for all Burners, per dozen	.35
Thermostats for Incubators (metal)	2.50
Connecting Rod and Nut for all Incubator Regulators	.50
Lever for all Incubator Regulators	1.00
Brackets for all Incubator Regulators	\$0.35

Lamp Support for Standard Incubators	2.50
Lamp Hangers for Incubator Styles A, B, C	.50
Lamp Hanger for Incubator Styles E and H	1.50
Incubator Legs (long) 75c	.35
Incubator Legs (short)	.25
Dampers (only) for Incubators	.50
Egg Testers	.25
Dram Caps for Incubators	.35
Filler Caps for all Standard Incubator Tanks	.25
Filler Caps for Incubator Lamp Bowls	.25
Door Catches for Standard Incubators	4.50
Underwriter's Lamp Supports with Gas Heater Complete	

When ordering new tanks for old incubators, the order must be accompanied by the exact dimensions of the tank to be replaced. Diagrams for this purpose will be furnished on application. When ordering new parts for old incubators, always mention size and design of the incubator.

## BUCKEYE COAL-BURNING STANDARD "COLONY" BROODER

### SELF REGULATING—EVERLASTING

Cuts the Cost of Equipment and Operation to Less than Half—Reduces the Time and Labor to Less than a Fourth. Nothing to Break. Nothing to Wear Out. The Simplest, Safest and Most Economical Brooder Ever Invented.

These brooder stoves are efficient and satisfactory in every respect; require but little attention, can be operated anywhere; burn hard coal, coke, briquettes or gas; fill the firebox once and shake down the ashes twice a day and they require no further attention. The Hover is galvanized steel, can be readily raised out of the way when the stove needs attention, has no curtain to wear out or collect dust and will care for any number of chicks from one or two up to full capacity. As the Hover is open all around the ventilation is perfect and the chicks never crowd. The temperature is regulated automatically by a thermostat attached to the stove and which will hold the temperature within a range of one or two degrees at all times.

No. 119—Capacity 1000, Canopy 56 in., Wt. 109 lbs. \$26.50

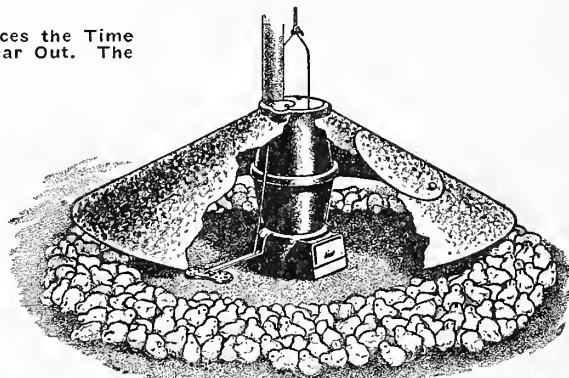
No. 118—Capacity 500, Canopy 52 in., Wt. 95 lbs. 21.50

No. 117—Capacity 350, Canopy, 42 in., Wt. 75 lbs. 16.50

Gas Burner for Brooder Stove; No. 25—\$7.00. No. 19—\$6.00.

No. 18—\$5.00.

One length of pipe included with each brooder.



### EXTRA PARTS FOR STANDARD BROODER

Water Thermostates, each	\$0.50	Grate Lock	\$0.50	Regulator Bolt	\$0.20	Hook Rod	\$0.20
Lower Regulator Arms	1.50	Shaker Handle	.50	Ash Pan	.50	Upper Flue Cylinder	5.00
Upper Regulator Arms	1.50	Stove Lid	.75	Ash Pit Door	1.00	3-inch Pipe, per length	.30
Half Grate (plain)	1.50	Check Draft Cover	.50	Baffle Plate	1.00	5-inch Pipe, per length	.35
Shaker Grate	1.50	Check Draft Protector	.50	Hover Ring	2.00	Elbows, 3 in., 25c; 5 in.	.30

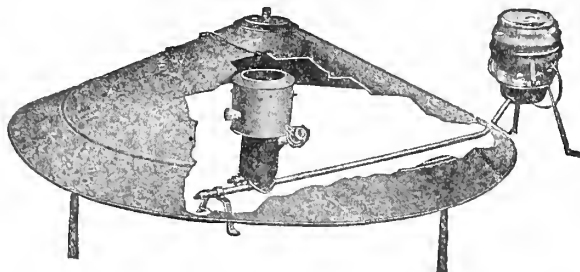
### EXTRA PARTS FOR BUCKEYE BROODER

Thermometers (tested)	\$1.25	Lamp Burners (No. 35)	\$0.75	Lamp Wicks, per dozen	\$0.35
Lamp Bowls	1.00	Lamp Chimneys	.50		

### EXTRA PARTS FOR BUCKEYE BLUE FLAME BROODERS NOS. 11 AND 12

No. 134 Vaporizer	\$1.00	No. 136 Outside Chimney	\$0.75	No. 138 Inside Chimney	\$0.75
No. 135 Burner	1.50	No. 137 Central Chimney	.75	No. 139 Chimney Cap	1.00

## THE BUCKEYE "IMPROVED" BLUE FLAME BROODER



Showing the "Improved" Buckeye Blue-Flame Brooder with a portion of the canopy cut away.

### OIL HEATED COLONY HOVERS

Burns Coal Oil—Has a Clean, Steady Blue Flame that Gives an Abundance of Heat. No Gas Fumes. Safe and Economical. Regulated with a Wick Guaranteeing a Continuous Oil Supply. Fill the Reservoir Every 24 Hours.

In the construction of this brooder valves of every kind have been eliminated. The burner operates on exactly the same principles as the wickless burner used in old models, but instead of feeding the oil through a valve, the oil is fed to the burner by an old-fashioned wick such as everybody understands. To start burner requires no priming; it is only necessary to open canopy and apply a match to the wick the same as you would an ordinary house lamp and it is controlled in precisely the same manner. To secure more heat wick is turned up and to reduce heat it is turned down. It requires no special education to operate it.

The efficiency of this brooder is superior to any that we have had the pleasure of handling. It not only produces a great volume of heat, but it does it with a small consumption of oil. Positively insured against the clogging of oil or flushing the burner. The large free channels guard against all chances of stopping the oil supply and a continuous supply of heat is therefore assured during every minute of the day or night. Just as long as any oil remains in the reservoir, it will feed to the burner and the system of regulation cannot go wrong.

These Brooders are made in three sizes only and the entire heating system supplied, will be made in one size only; everything the same with exception of the size of the canopy; these are made in the following diameters and are estimated to have the following capacity: No. 27, 200 chicks; No. 28, 350 chicks; and the No. 29 up to 500 chicks, and this is the size we recommend as the extra first cost is but little more than the smaller sizes and it enables you to care for any number up to capacity with practically no additional cost of operation.

If you live where it is hard to obtain a suitable fuel for Coal Burning Colony Brooder, you surely will make no mistake in the purchase of one of these new "IMPROVED."

### SIZES AND PRICES

No. 27—34 inch Hover, wgt. 42 lbs.	\$17.50
No. 80—42 inch Hover, wgt. 50 lbs.	19.00
No. 81—52 inch Hover, wgt. 60 lbs.	21.50

### EXTRA PARTS FOR BUCKEYE BLUE FLAME BROODERS

Nos. 27, 28, 29, 28-A, 29-A

If number of machine not known, give diameter of wick when ordering.	
B. F.- 127—Canopy legs for No. 27	\$0.50
B. F.- 128—Canopy legs for No. 28	.50
B. F.- 129—Canopy legs for No. 29	.50
B. F.-1271—Burner with wick	5.00
B. F.-1272—Enameled burner drum	2.50
B. F.-1273—Inner perforated tube of burner drum	.50
B. F.-1274—Outer perforated tube of burner drum	.50
B. F.-1275—Glass oil tank with bail and handle	1.50
B. F.-1276—Automatic valve for glass oil tank	1.50
B. F.-1277—Supply pipe with oil cup and stand	3.50
B. F.-1278—Wick, each	Small, \$0.50; Large, .75
B. F.-1279—Canopy lid	.75
B. F.-1280—Oil cup and stand	2.00

## Premium Sectional Oat Sprouters

### ALL METAL

A bushel of oats sprouts into three bushels of nutritious green feed. Hens lay more eggs, young chicks grow faster and are more healthy on green feed. Oats, rye and wheat can be easily and quickly sprouted and make the most economical and profitable food for winter.

Outside wall lined with asbestos—inside wall metal grain chamber, heat passing between the walls. One of the principal advantages of the Metal Sprouter is the very small floor space occupied. If an additional quantity of sprouted grain is needed, owing to an increase in the size of the flock, one or more additional sections may be added, greatly increasing the capacity without in the least enlarging the space occupied.

Large Base—1 bu., 2 trays, 100-150 hens, wt. 50 lbs. Price \$10.00.

Large Section—1 bu., 2 trays, 100-150 hens, wt. 33 lbs. Price \$5.00.

## "New Model" Clover Cutter for Poultry

Cuts either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into  $\frac{1}{4}$  inch lengths.

Made only of iron and steel, a strong feeder, large capacity, runs unusually easy, will do perfect work indefinitely.

The Cutting Mechanism is the most vitally important part of a Clover Cutter. The "New Model" admits of perfect cutting at all times, because cutter bar is adjustable, easily accessible, and the four 7-inch spiral steel knives can readily be removed for sharpening. Length over all  $28\frac{1}{2}$  inches. Weight 70 pounds. Price \$18.00.

## Wilson's Dry Bone Mill No. 1

This is a practical mill, grinding all kinds of shell, crockery, grit, burnt dry bone, feed, etc., coarse or fine. Weight 83 lbs. Price \$6.25.

## MANN'S GREEN BONE CUTTERS

The only one that will cut green bones and not clog.

The Mann's Green Bone Cutter is offered on a warranty to produce a perfectly edible food, with no waste, from any lot of green bones, with less labor, and less annoyance than any other bone cutter. The Mann's has a self-governing feed, producing uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set for it.

No. 5—Has four knives, large solid cylinder, patent automatic governing spring feed which makes it one of the best low-priced bone cutters ever offered. We can furnish with crank, balance wheel, or mounted on iron stand.

No. 7—The New No. 7 is mounted on a strong iron stand, patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, six knives, gear guard, anti-clog device, heavy balance wheel.

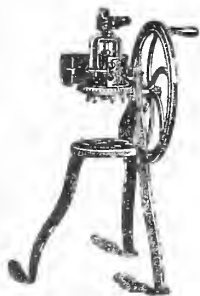
No. 7 $\frac{1}{2}$ —To run by hand or power without any change. The particular advantage of the 7 $\frac{1}{2}$  is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7.

No. 9—Intended for flocks of 100 to 300 hens. Similar to No. 7 but has larger cylinder, greater holding capacity, larger table, etc.

MANN'S No. 12—POWER—Strictly a power machine. Capacity 120 to 150 pounds per hour. Horse-power required, one to two.

No. 15—Similar to No. 12 but much larger and heavier, with more belt power. Cylinder is twice as deep; capacity 150 to 250 lbs. per hour. Takes almost any size bones.

No. 5G (with crank handle)	\$15.00	30
No. 5B (with balance wheel)	18.50	55
No. 5BM (B.W. and iron stand)	24.00	80
No. 7 (B.W. and iron stand)	27.50	107
No. 7 $\frac{1}{2}$ (hand or power)	42.00	150
No. 9 (hand)	44.00	170
No. 12 (power machine)	70.00	260
No. 15 (power machine)	136.00	420



# GREENPOD BRAND POULTRY FOODS



## Greenpod Chick Food

A Properly Balanced Ration that will make chicks grow and keep them healthy. For young Turkeys, Pheasants and all young fowls CHICK FOOD is unexcelled.

The select grains that are used in the preparation of Chick Food are cut by a special process, screened to a uniform size and run through a Fanning Mill to remove the dust and meal, which is the fatal element in most Chick Foods. After this process the ingredients are carefully weighed and mixed in correct proportions. No guess work. Greenpod Chick Food gives the chicks just what Nature intended they should have, a food composed of grains (cracked), small seeds, bone, etc., mixed in the right proportions to produce a quick and profitable growth without loss. Convenient, always ready for use, and you can raise so many more chicks by feeding it that it is the cheapest food you can buy. **WRITE FOR PRICES.**

## Greenpod Brand Growing Food

**ALL GRAIN.** For quickly developing Little Chicks into Big Profit-Paying Broilers. Our special formula for promoting a rapid, healthy growth, and should be fed after the third or fourth week; nothing else needed; will produce large, plump "Broilers." **Write for Prices.**

## Granulated Bone

Made from selected hard white raw bones, and of a superior quality; indispensable for laying hens. Price \$3.50 per 100 lbs.

## Fish Meal

A fine-ground, pure, sweet fish meal, containing protein—feed as you would meat meal; a rich, wholesome food. **Write for Prices.**

**See page 75 for complete line of Blatchford's Calf Meal, Chick Mash and Poultry Minerals.**

Greenpod Poultry Foods are manufactured from choice, clean, wholesome material. They are made to a standard and are the result of a lifetime of careful study and experiments by a thoroughly practical expert, who is a recognized authority on feeding.

Our trade mark on every original package is your protection. Demand it of your dealer.



## Greenpod Scratch Food

### ALL GRAIN

Complete, economical and satisfactory for every feeding requirement from the three-weeks-old chick to mature fowls. A perfect "working ration" for fowls. Carefully prepared in correct proportion, the "hen's delight."

When fed in conjunction with a scant allowance scattered in the scratching material in the morning keeps the hens busy hunting for the grains. In the evening feed sufficient that hens may go to roost with crops full. Scratch Food can be fed to young chicks at three weeks and has every element necessary to hasten normal growth and build up bone and flesh. A rich, nourishing food they greatly relish. **Write for Prices.**

## Semi-Solid Buttermilk

This is a creamy buttermilk condensed to a thick semi-solid paste. \$5.50 per 100.

## Alfalfa Meal

A substitute for green food for winter feeding. Can be mixed with dry or wet mash. \$1.75 per 100 lbs.

### ALFALFA LEAVES AND BLOSSOMS

The best substitute for green food for Winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts. **Write for Prices.**

### OIL MEAL

Soy Bean Meal.  
Linseed Meal, Old Process.  
Cocoanut Meal.  
Cotton Seed Meal. **Write for Prices.**

### CRYSTAL GRIT

Two sizes, chick and hen size. We send hen size unless otherwise ordered. Prices \$1.00 per cwt.

### OYSTER SHELLS, CRUSHED

Clean stock, free from dust and waste. Two sizes; coarse and fine.  
Oyster Shell.....6 lbs. 25c  
\$1.50 per 100 lbs.

### CHARCOAL

Prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion. Price, 50 lb. sack, \$2.00.

### POULTRY PEPPER COMPOUND

A tonic and invigorator; ground. 1 lb. 25c.



## Greenpod Laying Mash

Makes hens lay when eggs are high, keeps poultry healthy. Unequaled for feeding young chicks. A complete ground food to be fed dry or wet. Starts hens laying and keeps them at it. Hastens molting. Puts poultry in prime condition.

**No Drugs—No Stimulants**—but a rich, wholesome nourishing food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash and is the most successful combination of egg producing elements. Feed Greenpod Laying Mash to the hens in your breeding pens and they will produce eggs of strong vitality that hatch into sturdy chicks. **Write for prices.**

## Powdered Buttermilk

The pure solid content of the liquid buttermilk, with only the water taken out and nothing else added. It contains all the food elements of the liquid buttermilk but the process of drying puts it in a convenient form that will keep indefinitely and can be hauled long distances with only moderate freight charges. Can be used just when needed and with no waste from spoilage or shopping. 10 lbs. \$1.50; 100 lbs. \$10.00.

## Meat Scraps

A new meat product, perfectly prepared, fine ground and clean. Price, \$4.40 per 100 lbs.

## Meat Meal

Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg-production. Price \$4.40 per 100 lbs.

## Blood Meal

The most highly concentrated egg-producer on the market. To be fed in soft food. Unexcelled forcing growth or as an egg food. Price \$5.50 per 100 lbs.

## Bone Meal

Finely ground from hard white bones, and of a superior quality. This is used by Poultrymen in their feeding mash for laying hens. Price \$3.50 per 100 lbs.

PRICES SUBJECT TO MARKET CHANGE

# Lee's Foods and Remedies for Stock and Poultry

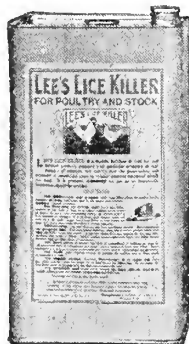
The GENUINE MERIT of the LEE FOODS and REMEDIES and their recognized superiority is their best guarantee, and you can depend upon them absolutely to do all that is claimed for them. The valuable booklets of the Lee Company are free to poultry keepers and stockmen, and contain reliable and complete information to date on poultry and stock feeding problems. We mail them on request.

## Lee's Liquid Lice Killer

FOR 20 YEARS THE STANDARD

Destroys either by vapor or contact. No trouble to apply; just paint the roosts or walls at night. Kils poultry and houses of all vermin; is prepared exclusively for this purpose, and there is nothing just as good. Price: Qt. 60c; 1/2 gal. 90c; gal. \$1.50; 5 gals. \$6.00.

F. O. B. Spokane.



## LEE'S GERMOZONE

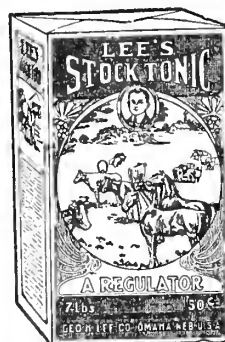


Regular use of Germozone insures BETTER health; BETTER chicks; BETTER layers; and the RIGHT kind of BREEDERS. Use it for Bowel Complaint in little chicks; for Cholera, Roup, and other diseases among the older fowls; and regularly TWICE-A-WEEK for ALL fowls. It prevents contagion, tones the system, and insures BETTER health for the entire flock. Liqu'd, not prepaid, 4-oz. bottle 40c; 12-oz. 75c; 32-oz. \$1.50; gal. \$4.50; tablets, postpaid, pkg. 75c.

## EGG-O-HATCH



Egg-o-hatch is a dry powder. It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies oxygen for the growing chicks; absorbs carbon dioxide given off; makes more brittle and porous the shell of the egg. Price 55c, postpaid. Will treat 600 eggs.



LEE'S BEST CONDITIONER STOCK FOOD—Promotes good health, digestion and assimilation. 2-lb. pkg. 50c; 7-lb. pkg. \$1.25; 12-lb. pails \$2.25. F. O. B. Spokane.

LEE'S WHITE DIARRHOEA REMEDY—The best medicine for this dangerous disease of little chicks. Wt. 2 lbs.; 12-oz. bottle, 50c, f. o. b. Spokane.

LEE'S HOG REMEDY—Cures all diseases of hogs and keeps them healthy. 7 1/2-lb. pkg. \$1.50, mailing weight 9 lbs.; 25-lb. pail, \$3.75, f. o. b. Spokane.

LEE'S DIP—For lice, ticks, mange, itch or scab, on cattle, sheep and hogs. Qt. 75c; 1/2 gal. \$1.25; gal. \$2.00; 5 gals. \$8.00. Mailing weights: Qt. 3 lbs.; 1/2 gal. 5 lbs.; gal. 10 lbs., f. o. b. Spokane.

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition. 2-lb. pkg. 50c; 5-lb. pkg. \$1.00; 25-lb. pail \$4.25; f. o. b. Spokane.

LEE'S WORM POWDER—For horses, cattle, sheep and hogs. Safe and sure in result. Pkg. 35c; wt. 1 1/4 lbs.; f. o. b. Spokane.

LEE'S SMOKE FLAVOR—Hickory Smoke Extract applied to meat preserves it indefinitely, imparting the delicious flavor that is only otherwise obtained by smoking with green hickory. 12-oz. bottle, wt. pkg. 2 lbs., 50c; 32-oz. bottle \$1.00.

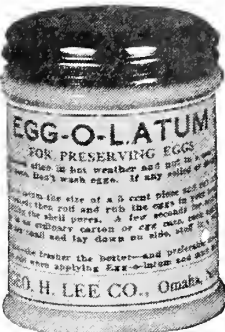
LEE'S FLYO-CURO—We sell thousands of cans of this fly spray every season, and it gives good satisfaction. Qt. 60c; 1/2 gal. 90c; gal. \$1.50; 5 gals. \$7.00; mailing weights, pt. 3 lbs.; 1/2 gal. 6 lbs.; 1 gal. 10 lbs.

LEE'S HEADLICE OINTMENT—For little chicks. Large box, 15c.

LEE'S LOUSE POWDER—1-lb. can, 30c; 2 1/2-lb. can 60c; f. o. b. Spokane.

LEE'S PEERLESS GOPHER KILLER—For killing gophers, squirrels, etc. Sure death. Quart can, wt. 3 lbs., 75c.

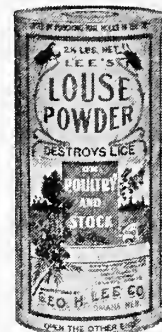
LEE'S PEERLESS BUG KILLER—Wt. pkd., 2 lbs.; 12-oz. bottle 35c.



## EGG-O-LATUM

Egg-o-latium is a white cerate. Rubbed over the shell of the egg it seals every pore so no air, moisture, odors, or germs can get in. Preserves the egg in all its original freshness. The application of Egg-o-latium is easily and quickly done. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertile ones are best. One package treats 50 doz. eggs. Price 55c, postpaid.

LEE'S GARDEN INSECTICIDE—(Non-poisonous)—This is a new addition to the famous "Lee Line" of insecticides. We recommend "Lee's insecticide" as one that is suited to the needs of the average gardener, and one that is guaranteed to give satisfaction. 1 lb. sprinkler top can, 35c; 2 lb. sprinkler top can, 10c.



SEE PAGE 75 ON THE VALUE OF  
POULTRY AND CATTLE MINERALS

# Miscellaneous Poultry Supplies

## Leg Bands for Poultry and Pigeons (See Cuts)

Every chicken must have a leg band on before it can be entered in a poultry show. In ordering Leg Bands, be sure to state size wanted, or breed of fowls bands are to be used on, and number wanted for males or females.



**SPIRAL COLORED LEG BANDS**—Made like a key ring—easy to put on, nothing to catch or tear off—instantly identifies your bird as far as you can see the color. All sizes from chick to mature fowls.

Ten Colors—Red, White, Yellow, Black, Pink, Green, Brown, Purple, Light Blue, Dark Blue.

Prices, postpaid, 12 for 20c; 25 for 25c; 50 for 40c; 100 for 65c. State breed of chicken.

## Bandettes

THE WORLD'S BEST  
LEGBAND

Most Practical,  
Simple, Neat



Bandettes are easily applied single handed, simply open out Bandette, hook it on leg, and allow it to close around the bird's leg; should not fit tight.

If you wish to seal Bandettes (after applying band on leg) you may do so by putting a few drops of DuPont Household Cement under the outside lap of the band, and hold it for a minute tight. We can furnish this cement at 25c a tube. This cement can be used to mend almost anything, glass, shoes, wood, ivory, leather, cloth, celluloid, bone, etc.

We make two sizes:

No. 9 for Leghorns and  
No. 11 for Rocks, Reds, etc.

Bandettes are made in 5 colors: Blue, Red, Yellow, Green, Pink.

Bandettes are sold only in unbroken sets of 25 in one color: 1-25, 26-50, 51-75; 76-100.

### PRICES OF BANDETTES

25.....	\$0.60	500.....	\$ 9.50
50.....	1.10	1000.....	18.00
100.....	2.00		Postage paid.



Colored "LEADER" Leg Band—Adjustable, will fit any fowl, the colors are of celluloid in metal protecting band. White, Pink, Red, Blue, Yellow, Green and Brown. Can be furnished numbered 1 to 100.

Price, 12, 35c; 25, 60c; 50, \$1.10; 100, \$2.00; 250, \$4.50; 500, \$8.50; 1000, \$16.50.



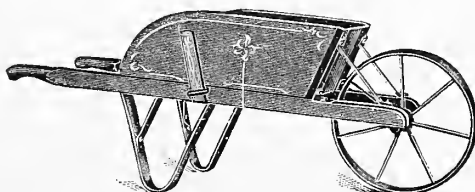
**LEADER**—Has neat, compact and smooth fastening, with no catching points; easily attached and is absolutely secure.

Prices, postpaid, 12 for 15c; 25 for 20c; 50 for 50c; 100 for 75c.

## American Garden Wheelbarrow

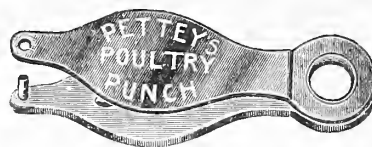
20-inch steel wheel with 2-inch oval tire. Solid steel axle and malleable axle boxes. Oval pressed steel legs, Vermillion finish and varnished. Light but rigid—built to last. Shipped K. D.

No. 1—Size of deck 17x22x29. Price \$8.75 F. O. B. Spokane.



## Petty's Poultry Punch

Latest, most convenient Poultry Punch; can be put on a key ring or used for a watch charm. Will not clog. Very practical. Postpaid, 25c.



## Lever Poultry Punch

Strong. Cuts clean. Each 40c; postpaid, 45c.

## Nest Eggs

**CHINA**—Best grade Opal Eggs. Weight per dozen, ¾ pound. Price, each, 5c; 12 for 35c.

**LIME NEST EGG**—These are superior to the China egg, not so cold, and are indestructible. Weight per dozen, 2 lbs. Price, each, 5c; doz. 40c; postpaid, 50c.

## Wire Hen's Nests

Strongly made; very durable. Fasten to the wall; no harbor for vermin. Wt. 10 oz. each. Each 25c; doz. \$2.75.

## Buckeye Egg Tester

Cheap but practical. Price, 50c, postpaid.

## Rabbit Dishes

Earthenware Rabbit dishes have incurved edges that prevent them from rooting out their food. Very serviceable. Price, 6-inch, 25c each; 8-inch, 35c each. Cannot be mailed.

## Thermometers

FOR INCUBATORS—TESTED

"Buckeye," tested, each.....\$1.00  
Fig. 10—Straight; metal back, each.....90c

FOR BROODERS

Buckeye—For Nos. 20, 21, 22, each...\$1.25  
Fig. 2—For any style brooder, each.....85c

## New Parcel Post Egg Crate

The Strongest, Lightest Egg Carrier. You can mail eggs in this crate 150 miles with return of crate for 3¼ cents a dozen. Each 90c; postpaid, \$1.00.

## Egg Cases

30-doz. size, with fillers, each 70c.  
30-doz. size K. D., no fillers, each 30c, f. o. b. Spokane.

### EGG CASE FILLERS

Packed in cases containing fillers for 12 30-doz. cases. Per Case \$3.60.  
Fillers for 1 30-doz. case, 35c.  
Fillers holding 3 doz. each, each 5c.

## Ideal Paper Egg Boxes

Intended for use in delivering eggs to private families. Wt. 12 lbs. per 100. Wt. 12 lbs. per 100.  
Prices: 1-dozen size, 20c dozen; \$1.10 per 100; \$10.00 per 1000. Sample box by mail 5c.

## Kant Krack Folding Egg Box

The Kant-Krack Egg Box is specially designed for the safe delivery of valuable eggs for hatching and is a great favorite with poultrymen.

Made of heavy corrugated paper. Only a few seconds work to set the box up, pack it with eggs, and address it. These boxes are light but very strong, being firmly braced and will stand the weight of several hundred pounds without crushing.

No.	Size.	Wt.	Each.
3	15-Egg	1 lb.	\$0.30
4	30-Egg	1½ lb.	.50
5	50-Egg	2 lb.	.75



## Thompson's Banner Root Cutters



No. 7.

For Poultrymen only.

For cutting beets, turnips, carrots, mangles, potatoes and all roots and vegetables to the proper size for feeding cattle, hogs and fowls.

They place the breeder in a way of supplying green food for the poultry the year round.

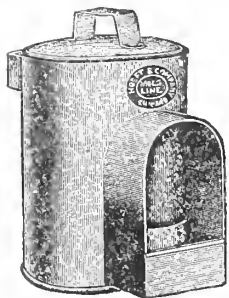
Weight 40 lbs. Price, each \$8.50, f. o. b. Spokane.





# Poultry Feeders and Founts—Egg Scales

## Moe's Improved Wall Fountains



Made of heavy galvanized iron, in two sizes. The covered outlet keeps out dust and dirt, and the cutlet is further protected by a removable plate which prevents any floating rubbish from being drawn into the reservoir.

No. 98—Capacity  
1 gal. ....\$1.15

No. 99—Capacity  
2 gal. .... 1.50

## Moe's Bottom Fill Fountains



No. 24

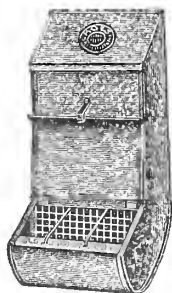


No. 20

No. 19—Capacity about 1 quart; each.....\$0.35  
No. 20—Capacity about 2 quarts; each..... .45  
No. 24—Capacity about 1 gallon; each..... .55

## Dry Mash Hoppers

Width	Capacity	Each
8½ in.	10 quarts	\$1.65
12 in.	14 quarts	2.20
18 in.	22 quarts	2.40
24 in.	32 quarts	3.10



## Moe's Double Feeding Troughs

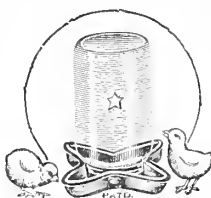


## Moe's Single Feeding Troughs



Length	Single	Double
12 in.—Each	\$0.30	\$0.40
18 in.—Each	.40	.55
24 in.—Each	.50	.65

All articles on this page F. O. B. Spokane unless otherwise stated.

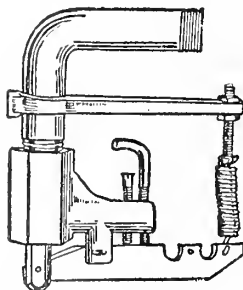


## Star Founts and Feeders

One solid piece of pressed metal, holds a Mason quart jar, has more available space for drinking or feeding than other feeders of this class.

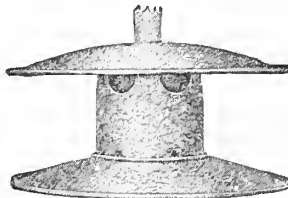
Without Jar, Each 10c.

## "Guaranteed" Automatic Water Fountain



Especially designed for poultry, can be attached to any water line, tank or barrel. Operated by gravity pressure of drinking pan, supplies fresh water to fowls automatically. \$1.75 each or \$1.85 postpaid.

## Putman Brooder Heater

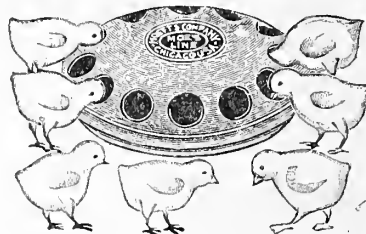


You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. Heater requires filling but once a week—no other attention needed. Uses less than a gallon of oil a month. Acts like a fireplace, carrying foul air out and drawing in fresh air, perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed. Price postpaid \$4.75.

## Little Putman Stove

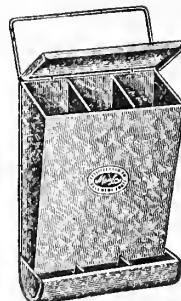
Just the thing for making a home-made oat sprouter or for warming the drinking water for poultry. Has a new principle in burner, insuring perfect combustion of oil and doubling the heat value. Burns 3 to 4 weeks without refilling or other attention. Wick never needs trimming. For heating water it can be used with a can, crock or fountain. Non-explosive—if tipped over or buried in litter it will go out. Complete directions for making oat sprouter. Price postpaid \$1.95.

## Moe's Round Feeder



No. 11—Moe's Round Feeders. Diameter 6 in. with 8 feeder holes. Price each .....15c

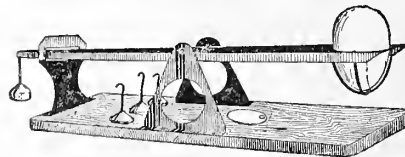
No. 12—Moe's Round Feeders. Diameter 8¼ in., with 12 feeder holes. Price each .....25c



No. 9—Grit Box. Has three compartments. Height 13 in. Width 8½ in. Packed 6 in a box. Shipping weight (?). Each \$1.00. Dozen, \$12.00.

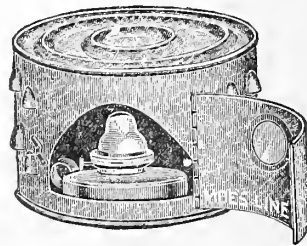
No. 90—Grit Box. Has four compartments. Height 13 in. Width 11 in. Packed 6 in a box. Shipping weight (?). Each \$1.35.

## Gilt Edge Egg Scale



Simple in construction, easy to operate, graduating by the ounce per dozen. Price \$1.75, postpaid.

## Moe's Fountain and Brooder Heater

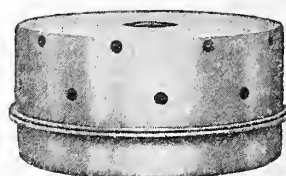


Can be used with all styles of fountains, and effectively prevents water from freezing.

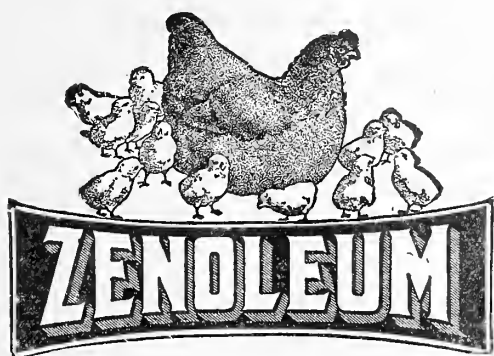
Effectively solves the problem of a uniform supply of fresh, clear water at all times, no matter how cold the weather. It is also an excellent heater for small brooders.

The lamp fount or bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order. Height 7 in. Diameter 11 in.

No. 10—Price, each.....\$2.00



# Poultry Supplies and Remedies—Continued



We believe Zenoleum is the best general live stock remedy for lice and vermin on all animals. It is a positive disinfectant and can be used freely in stables and poultry houses. Used often it will keep these buildings clean and wholesome.

A sure cure for skin trouble and external parasites on hogs and sheep.

Our guarantee: if Zenoleum is not what we represent it to be we will refund your money.

The 8-oz. tin is postpaid. All other sizes by express at purchaser's expense.

8-oz. tin 35c, makes 6 gallons fluid.  
1 qt. tin 75c, makes 25 gallons fluid.  
2 qt. tin \$1.25, makes 50 gallons fluid.  
1 gal. tin \$2.00, makes 100 gallons fluid.

F. O. B. Spokane.

## CARBOLINEUM

### To Exterminate Chicken Lice in Poultry Houses

Clean inside walls, etc., as good as possible, then apply to same one or two coatings of Avenarius Carbolineum. Special care should be taken to fill all cracks and crevices in the wood-work with Avenarius Carbolineum.

The coating should be applied in the morning, and afterwards the poultryhouse closed up for some time. The chickens can occupy their coop again in the evening.

PRICE—Quarts 75c; Gallon \$1.75



### Disinfectant—Deodorant— Antiseptic—Not a Poison

**Powerful**—By Government method test B-K has over ten times greater germ-killing strength than carbolic acid. Much stronger than coal tar disinfectants—much safer.

**Clean**—B-K is colorless, leaves no stain on floors or walls.

**Deodorant**—B-K destroys foul odors—leaves no odor of itself. Does not soil animal's hair.

**Safe**—B-K contains no poison, acid nor oil.

**Cheap to use**—B-K is so much stronger than other disinfectants that more water is used. It goes farther.

**SAFE—CLEAN—POWERFUL—SAVES TIME—SAVES LABOR**

"BACILI-KIL" is a combination of hypo-chlorite stabilized by electrolysis. In our limited space, we cannot tell you all of its many uses. Ask for Special Booklets. Prices, F. O. B. Spokane: 4 oz. 35c; 10 oz. 60c; 32 oz. \$1.25; 1-gal. jug, \$3.00; 5-gal. carboy, \$12.50.



### For Flies and Other Insects Use

## K-O FLY SPRAY

It is clean and clear—Does not taint milk—Protects cows, calves, sows, pigs, without blistering. Is ideal for show stock.

PRICE—Quarts 70c; Gallon \$1.75

## "GOLD LEAF" TOBACCO POWDER

As a result of extensive investigation carried on by the California Agricultural Experiment Station, it was found that tobacco dust, or finely powdered tobacco, was one of the most effective remedies against round worms in poultry which could be used; one that is uniform in strength and texture, and contains not less than 1% and not more than 1.5% of actual nicotine.

These requirements are provided in "Gold Leaf" Tobacco Powder. It is packed in 2-pound sealed paper sacks, 12 to the case, 10-pound paper sacks, 6 to case, thus assuring the poultry owner of a reliable tobacco powder of the proper kind in original factory-packed containers. Prices: 2-lb. pkgs. 30c each or \$3.00 per doz.; 10-lb. pkgs. \$1.00 each or \$5.50 per case of 6.

## FLEISCHMANN'S PURE DRY YEAST

### For all kinds of domestic fowls and animals

No matter what kind of poultry you raise—chickens, pigeons, ducks, turkeys, guinea fowl—Fleischmann's Pure Dry Yeast will improve your flock. The fertility and hatching quality of eggs, the vitality and development of both young and mature birds—these are all contributed to by Fleischmann's Pure Dry Yeast.

It can likewise be profitably fed to other animals. Pigs fed on yeast-fermented slop feed put on weight at increased speed. Cattle, their delicate digestive organs kept in order by yeast, added to feed, produce more milk and butterfat. To horses that are not doing well on their rations, and to colts that lack the appearance proper to their age, Fleischmann's Pure Dry Yeast should be fed regularly. Write for our special booklets on poultry, swine, horses and cattle.

Fleischmann's Pure Dry Yeast is now offered at the following prices:

1 lb. package.....	\$ 1.00
2½ lb. package.....	2.00
100 lbs. in bulk.....	69.00



### For Dipping Cattle and Sheep

### For Spraying Hog and Poultry Houses

### Keeps Barns Sanitary

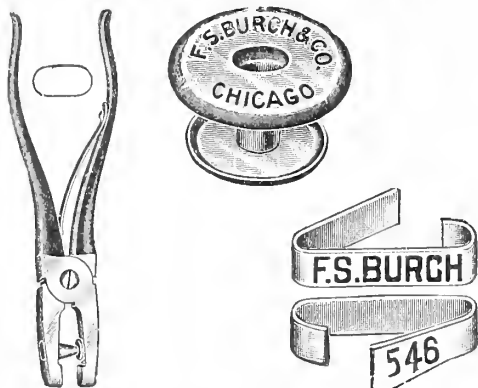
A Solidified Soluble Coal Tar Disinfectant

A new and better Dip and Disinfectant in a handy, cheap form. Not only handier and cheaper, but stronger and more efficient. Does the work of five times its weight in liquid. Just crush a small cube of Tarx in a gallon of water and you have a gallon of the best dipping and disinfecting solution. Each cube makes a gallon. No measuring, no mistake, no breakage, leakage or waste. The right strength every time.

It keeps indefinitely; never loses strength; is not affected by heat or cold. Each 5-lb. cake is marked off in 150 cubes, enough to make 150 gallons. Use it for dipping cattle and sheep, spraying hogs, spraying poultry houses. Keeps barns sanitary. Cleans foul places that breed disease. Dissolves readily in water and can be used in any spray pump. Send for special booklet. 1 lb. 50c; 5 lbs. \$2.00. Postage extra.

# DAIRY SUPPLIES

## MARKERS FOR CATTLE, SHEEP AND HOGS



Metal Ear Labels and Ideal Ear Buttons are satisfactory and easily applied marks of identification that are indispensable to breeders and stockmen.

Your name and address on one side, numbers on the other.

Not more than ten large letters can be used on the hog and sheep size; 15 large letters on cattle size, or 22 small ones.

PRICES: Two sizes.		Sheep and Hogs. Cattle.	
100 with name and number.....	\$1.75	\$2.25	
50 with name and number.....	1.25	1.50	
25 with name and number.....	.85	.90	
100 with name only, or number only.....	1.25	1.75	
50 with name only, or number only.....	1.00	1.25	
25 with name only, or number only.....	.75	.85	

Wt. for mailing, Cattle size, 2½ lbs. per 100; Sheep size, 1 lb. per 100.

OVAL EAR PUNCHES, Cattle Size; weight, 1¼ lb. each, \$1.75; Sheep and Hog size, \$1.40. Postage, 10c each.

## IDEAL EAR BUTTONS

Pure Aluminum Hardened.

Medium size, suits all animals, clinches tight, cannot come out; double strength. Name and address on top side; number on bottom, or number and name can both appear on one side if not more than 18 letters and figures; if more than 18, both sides can be used to the limit of 30 letters and figures. Easily attached with special punch and pliers.

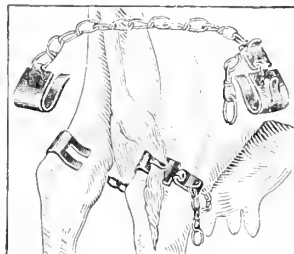
PRICES			
25, Wt. 3 oz.....	\$1.55	500, Wt., 4 lbs.....	\$16.50
50, Wt., ¼ lb.....	2.00	1000, Wt., 6 lbs.....	30.00
100, Wt., ¾ lb.....	3.75		
Punch and Pliers, Wt., 1 lb.....			\$1.50

## SO BOS COW KICKERS

Numerous methods have been devised to keep the cows feet out of the milk pail and her tail out of the milkers' face. Most devices have been insecure, tedious to apply, or injurious to the cow. When insecure, the cow becomes worse as she succeeds in freeing herself. When tedious to apply, milkers will hazard the risk rather than use up precious time. When injurious to the cow, owners will naturally hesitate.

**DIRECTIONS**—If your animal is wild or vicious, retain the lock hook and pass the other under animal to a helper, who will hook it on the large tendon above hock joint on outside of left leg; then fasten the other hook on right leg in same way and draw chain through locking loop and when legs are drawn close let the chain slip into the lock. The animal is forever barred from kicking or walking unless released.

PRICE, 75c; POSTPAID, 85c.



## BABCOCK TESTER

FOR TESTING MILK AND ITS PRODUCTS

The most accurate and best built tester. Case is one solid piece, weighing about 4 pounds. Crank and shaft a single solid piece of steel. Worm spindle and gear solid steel and iron mesh full width.

Buckets solid brass. Gear worm runs in oil. Model 3 Babcock Testers are guaranteed perfect in workmanship and material, all are equipped with full set of glassware, bottle of acid and brush. Shipping weight, 15 lbs.

### Prices Babcock Testers

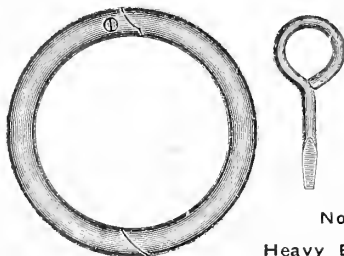
No. 4—2 bottles, milk only.....	\$6.00
No. 5—2 bottles, milk and cream.....	6.50
No. 6—4 bottles, milk only.....	7.00
No. 7—4 bottles, milk and cream.....	7.50

FOR 6 TO 24 BOTTLE INCLOSED MACHINES,  
WRITE FOR PRICES.

## BABCOCK TEST GLASSWARE

	Each	Doz.
Milk Bottles 10%.....	\$0.40	\$4.10
Cream Bottles 50%.....	.50	5.00
Skim Milk Bottles.....	.50	
Pipettes 17.6 c.c.....	.40	4.00
Pipettes 18 c.c.....	.40	4.00
Acid Measure.....	.20	2.00

Sulphuric Acid for Babcock Test. Write for Prices.



## BULL RINGS

No. 20, 30c. No. 21, 40c.

Heavy Brass, Each \$2.00, Postpaid.

## DAIRY THERMOMETERS



FLOATING DAIRY—Mercury or red spirit. Each 75c.

PASTEURIZING—30 to 220°. Each \$1.00.

QUEVENNES LACTOMETER, with Thermometer in stem. Each \$2.50.

LACTODENSIMETER (QUEVENNE)—Specific gravity scale, 1015 to 1040, 1 degree graduations; with thermometer in top of stem; length, 13 inches. Each \$4.50.

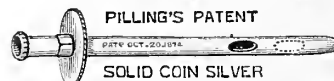
GLASS JARS—Plain glass jars with foot and pour-out for use with spraymeters and hygrometers in testing.

10x2 inches.....Each, 45c  
12x2 inches.....Each, 50c

GRADUATED CREAM GAUGE—Graduated 0 to 30 per cent. 9½x1½ inches, 75c.

All thermometers and glassware sent at purchaser's risk of breakage.

## MILKING TUBES



2-inch, plated.....	25c
3-inch plated.....	25c
4-inch, plated.....	25c

## CATTLE INSTRUMENTS

MILK FEVER OUTFIT, Pillings.....Each \$3.75

CATTLE TROCARS.....Each 1.10

LEAD PROBES.....Each 25c

TEAT EXPANDERS.....Each 25c

## PIG FORCEPS



Each \$1.75 Postpaid.

Large returns  
Small cost

No labor expense  
Easy to use

# Increase your crops Improve your soil

## Mulford Cultures

FOR LEGUMES

Mulford Cultures are scientifically prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

Legumes offer the best known means of maintaining soil fertility and rejuvenating overcropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitro-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are easily applied to the seed before planting and contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

**PRICES**—Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

Alfalfa, Red Clover, White Clover, Alsike, Vetch, Peas, Beans—  
1/2 Bu. 60c, 1 Bu. \$1.00, 2 1/2 Bu. \$2.25.

Special Small Size for Sweet Peas, Garden Peas and Beans, 35c.

*Full Information and Mulford Booklet  
on Request*

## Wyandotte Cleanser

is made especially for use in the dairy, creamery and wherever cleaning is done by hand. Its merit lies in thorough cleaning properties, for it not only produces cleanly appearances but also cleans clean, as is proved by the sanitary protection it gives milk.

No dairy utensil or milk container is too complex in design to be properly and easily cleaned with this material. Furthermore, the small cost of using Wyandotte's Cleaner and Cleanser is evident when you observe the cleanliness it creates and the lesser amounts of time, labor and cleaning material it requires to do the cleaning you want done.

Prices F. O. B. Spokane.

Barrels, 280 lbs.....	\$17.92
Kegs, 80 lbs.....	6.12
Bags, 25 lbs.....	2.00
Bags, 5 lbs.....	.50

**Wyandotte**  
Cleans Clean  
Sanitary Cleaner-Cleanser



## Wyandotte Detergent

Is an abrasive cleaning, mopping and scrubbing material especially adapted for thoroughly and quickly cleaning painted walls and marble, tile, mosaic, cork and rubber floors. Since it does not mar, scratch or injure the surface on which it is used, it proves an economy in the surface saved.

Prices F. O. B. Spokane

5 lb. Bags.....	\$0.60
75 lb. Kegs.....	7.05

**Wyandotte**  
Abrasive  
Detergent

## Wyandotte Alkali Special



Alkali Special for the bottle washing machine.

Wyandotte Alkali Special is a free rinsing. It loosens easily and quickly, all objectionable matter, labels, etc. It coats the chains and pockets of the machine without the least injury to either. It rinses freely, and gives a clear, bright, clean, sanitary bottle, free also from the slippery or "soapy touch" so common with many other cleaners. And does it all at a minimum cost.

How Shipped.

Wyandotte Alkali Special is packed 300 pounds net weight in barrels and 80-lb. kegs with Green Hoops both top and bottom. Every barrel of the genuine contains a card bearing the trade mark, Indian with drawn bow and arrow enclosed in triangle.

Barrels, 300 lbs.....	\$21.45
Kegs, 80 lbs.....	6.72

# DAIRY SUPPLIES

## APRONS

Double .....\$2.75 each

## BOTTLES



Quarts, ½ gr. to case .....\$1.25 doz.  
Pints, ½ gr. to case .....\$1.00 doz.  
½ pints, 1 gr. to case .....80c doz.  
Write for prices in case lots.

## BRUSHES

No. 124—10 inch handle, machine .....60c each  
No. 86—10 inch handle, hand .....70c each  
No. 82—10 inch handle, hand .....60c each  
No. 61—10 inch handle, hand .....50c each  
No. 08—Can Scrub .....40c each



## BROOMS



Bamboo—4 row .....\$1.00 each  
Bass—5 row .....1.00 each  
Steel—6 row .....1.50 each  
Handles for broom .....25c each

## BOTTLE CASES

Quart Wagon Case .....\$1.75 each  
Pint Wagon Case .....1.75 each  
Half Pint Wagon Case .....1.90 each  
Filler Cases .....1.90 each

## BOTTLE CARRIERS

Six Quart Carrier .....\$1.25 each  
Eight Quart Carrier .....1.50 each

Takes place of bull staff; spring snap, 3 feet tinned chain, ring at end; 3 screw eyes. Used with bull ring in leading vicious cattle. Can be used with rake or hoe handle. Excellent. Postage extra.  
Price (ship. wt. 1 lb.) .....\$1.00

## BOTTLE CAPS

Plain 1 M lots .....\$0.70 M  
Plain 5 M lots .....60 M  
Plain 50 M lots .....50 M  
Perfection 1 M lots .....70 M  
Perfection 5 M lots .....60 M  
Perfection 50 M lots .....50 M

## BOTTLE FILLERS

Single Valve C. P. ....\$17.50 each

## FILTER CLOTH

One pound rolls .....\$1.45 each  
Squares 7x7 inches, 50 to box .....1.20 box  
Squares 9x9 inches, 50 to box .....1.75 box  
Squares 12x12 inches, 50 to box .....3.00 box

## MILK CANS



3 gal. C. P. St. John Can .....\$3.25 each  
2 gal. C. P. St. John Can .....\$2.80 each  
1 gal. C. P. Reno Can .....\$2.00 each  
3 gal. Lisk, No. 2412 .....\$2.70 each  
2 gal. Lisk, No. 2408 .....\$2.60 each  
1 gal. Lisk, No. 2404 .....\$1.35 each

## MILK CANS

10 gal. C. P. Climax Can .....\$4.25 each  
5 gal. C. P. Climax Can .....\$3.20 each



## MILK PAILS

Lisk No. 7414, Open Top .....\$1.50 each  
Lisk No. 8414, Fish Mouth .....3.00 each  
Lisk No. 7515, Seamless Open .....3.25 each  
Lisk No. 8514, Seamless Fish .....4.00 each

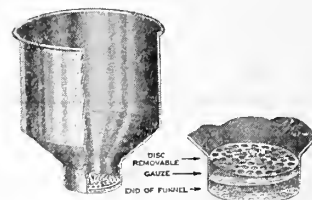
## MILK COOLERS

No. 1 Reid Cooler, 45 gal. ....\$35.00 each  
No. 2 Reid Cooler, 50 gal. ....37.50 each  
No. 3 Reid Cooler, 65 gal. ....42.00 each  
No. 4 Reid Cooler, 80 gal. ....48.00 each

## MILK STIRRER

Milk Stirrer .....\$0.55 each  
Milk Sampler .....55c each

## STRAINER



Buhl Abskleen .....\$3.00 each

## DISC CLOTHS

Pkg. of 25, 40c; pkg. of 100, 90c; postpaid.

## SCALES

Chatillion, 30 lb. ....\$ 7.50 each  
Chatillion, 60 lb. ....9.00 each  
Chatillion, 120 lb. ....11.00 each

## HANDY CARTS

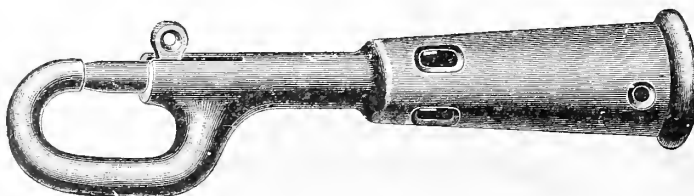
All metal parts malleable steel; strong, light, easy to wheel.

Platform, 27x30 inches; 36-inch wheel; 2½-inch tire. Weight, K. D., 85 lbs. Price, \$15.50.

## PERFECT CATTLE LEADER

Malleable iron with brass plated spring. Ship. wt., each, ¾ lb.; dozen, 5½ lbs.  
NO. 1—Length 4½ inches, inside width 1½ inches. Each 25c.

## BULL SNAPS





# LOUDEN BARN EQUIPMENT

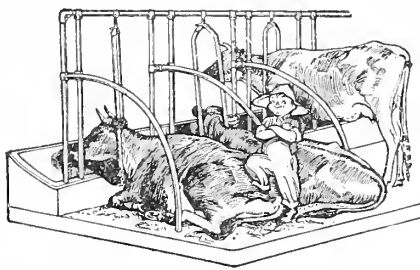
## The Louden Cross Braced Double Post Cow Stall—Fig. 812



**Perfectly Proportioned.** The stall posts are so spaced that there is a good separation between the feed in the mauger and the bedding on the stall floor, while, with our flexibly hung stanchions, there is ample room between the posts for the comfort of the cow. The posts are set the proper distance apart to let the stanchion open wide enough to receive the cow's head, and yet not so wide that the cow can walk right through it. This is one of the faults of single post stalls. It is entirely overcome in our 812 stall.

**No Attachments Needed.** With single post stalls the cow is liable to place her head in the space between the post and stanchion and to prevent this, attachments of different kinds are used to at least, partially remedy the defect. Nothing of the kind is needed with our 812 Stalls. While the posts are set wide enough apart to give the cow ample freedom to lie down at one side or the other, and to turn her head or lick her side without cramping, the space is not so wide that the cow is liable to get her head in the wrong place. There is just **one place** where the cow can put her head and that is in the **open stanchion**, and it will never be so wide open that she will be tempted to force her body through it.

**Simplicity of Construction.** There are no complicated parts about this stall to get out of order and cause trouble. In addition to the stanchion, it consists of the **continuous top-rail**, the **vertical stall posts**, the **cross brace**, and the **bent stall partition** with the necessary couplings to hold the parts together. The cross braces are made of different lengths to suit different widths of stalls, whereby the proper proportions are always preserved.



## Louden Tubular Steel Stanchions

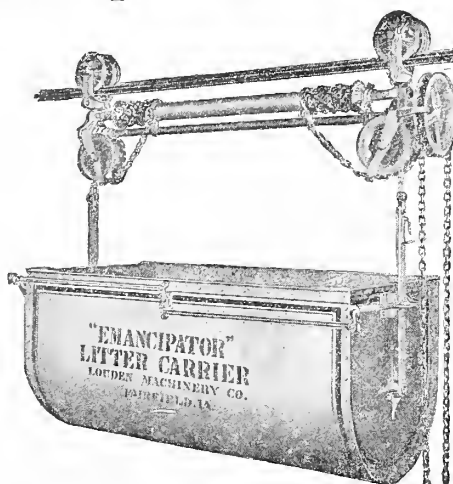
There is nothing of greater importance in Dairy Barn Equipment than the Stanchion by which the cow is held. It should be strong and durable to hold the cow securely and yet allow her all the **freedom of movement** necessary for her comfort. A rigidly hung stanchion should not be permitted, and if the law against cruelty to animals was strictly enforced it would not be permitted.

The cow must be made comfortable to produce the most milk and return to her owner the **largest profits**. Therefore the stanchion must be flexibly hung so its lower end will be free to swing in a circle of 8 to 10 inches. This is necessary to allow the cow to pitch forward in getting up and lying down without jamming her shoulders against the stanchion and to avoid cramping her neck in lying down at one side or the other of the stall.

The Louden Tubular Steel Stanchion has stood the **test of time** and is growing more popular every day. Half a million are already in use in all parts of the world and the sale is rapidly approaching the million mark. Can be hung in wood or steel frames.



## Emancipator Litter Carrier



**LITTER CARRIERS**—Labor costs money. Whether you clean your barn and feed your stock yourself or hire it done, you cannot afford to waste the time and energy called for by the old wheelbarrow method. The saving in time alone gained by the use of a litter and feed carrier will pay handsomely on the investment.

**ASK FOR FREE LOUDEN  
CATALOG**

## LOUDEN—Continued

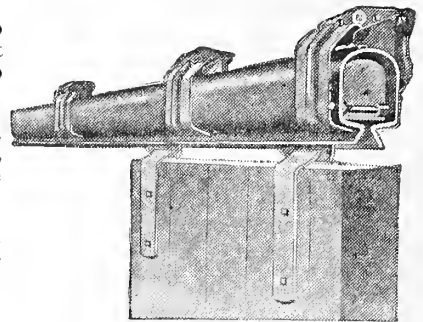
### LOUDEN BIRD-PROOF DOOR HANGERS

Louden Barn Door Hangers are for use with any door where it is desired to overcome the inconvenience and awkwardness of a swinging door. They are built to meet any requirements, no matter what size the door, or how essential it is to combine strength with neatness.

Exclusive features in Louden Barn Door Hangers make them desirable for barns, garages, outbuildings of all kinds, and for hanging factory or store fire curtains, or for "opening the whole side of the building," as is necessary for some air-dome theaters, band stands, freight houses, tobacco sheds, etc.

Doors hung with Louden Hangers open and close easily and with little noise. They will stand up under heavy, continuous work and will give complete satisfaction.

A complete Louden Barn Equipment Catalog with Prices and a Barn Plan Book mailed upon request. Let us tell you of the FREE Barn Plan Service. There is no expense—no obligations. It will give you valuable suggestions.

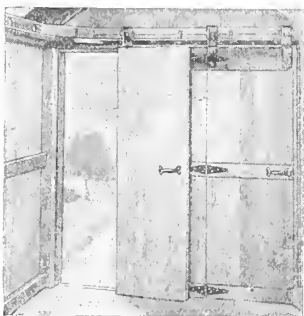


### LOUDEN GARAGE HANGERS

This is without doubt the best means of hanging a garage door ever devised. Practically no space is wasted either inside or outside the building. It is neat. It is easily opened and shut. Wind cannot bother as it does swinging doors. The door being made in three sections does not cut off a big corner when being opened—compelling one to run the car three or four feet further into the garage—thus wasting much space in the back of the building—as is necessary with a one-piece door.

The section of this door which can be used as a swinging door for passage in and out is very convenient. The track for the Garage Door Hanger is hung inside the door opening.

Write for prices giving size of door.

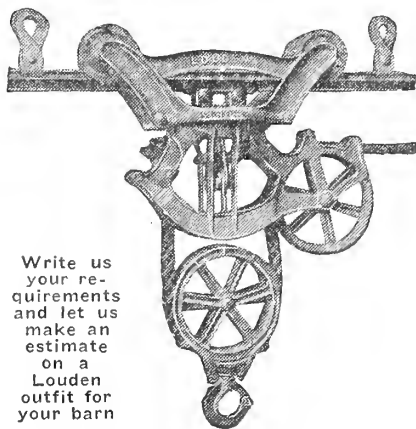


GARAGE CLOSED WITH  
OPEN PASSAGE



DOOR OPEN

### LOUDEN HAY TOOLS

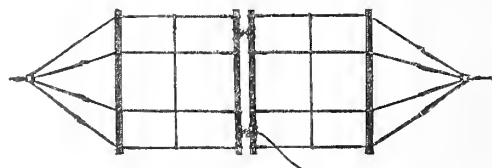


Write us  
your re-  
quirements  
and let us  
make an  
estimate  
on a  
Louden  
outfit for  
your barn

Over fifty-five years ago the LOUDEN HAY TOOLS made their initial bow to the hay growers of America. Since which time it has been the object of the Louden Company to build the best goods possible and sell them at reasonable prices. They have never entered into the scramble to make cheap goods.

You will find the Louden Company in a position to supply Hay Unloading Tools and Equipment for every need—Single End, Double End, Center Drive and Round Barns—for Forks or Slings—Wood or Steel Track. Slings, Forks, Pulleys, all made at the Louden factory and of Louden quality.

### LOUDEN CARRY-ALL HAY SLING



The Carry-All is the popular leader of the widely known and widely used Louden line of Hay Slings. It is designed for hard, heavy work and yet it works so perfectly and so easily that it is adapted for use anywhere that a hay sling can be used.

This sling is strong enough to permit unloading an ordinary load of hay at a single lift, and can safely be used to handle ton loads. The design of the sling is new. The two cross bars in the center are held close together and are connected by a strong double lock instead of one lock only, as generally used.

This is the ideal sling for handling short growths, such as threshed straw, headed grain, bound grain, dry or short clover and alfalfa. On account of its close construction and the fact that it is connected at two points in the middle, there is no chance for short hay or straw to shatter through or fall out. The sling is equally adapted for handling the long and heavy growths.

The double lock works easily and perfectly. The trip rope attaches to one lock only, the other lock being merely a hook and an eye. A slight pull on the single trip rope releases both locks simultaneously. The lock releases as easy under a heavy load as a light one. In coupling the sling together the hook is inserted in the eye and at the other end the catch is snapped into place. The connection is quickly made and will hold securely.

**Write for Louden Free Farm Plan Book**

## Dairy Supplies Continued



### Blatchford's Calf Meal

A perfect Milk Substitute at 1-3 the cost—will push Calves and Colts ahead quicker than any other food.

100 LBS. MAKES 100 GALS. OF COMPLETE MILK EQUAL

BLATCHFORD'S CALF MEAL is a thoroughly steam cooked food for calves, to take the place of cows' milk, contains all the elements of whole milk, yet costs less than skim milk. Calves and colts are healthier, hardier and grow faster when fed on Blatchfords calf meal. Ask for the Blatchfords booklet and learn how others made big profits raising calves on Blatchfords meal. Prices: 25 lbs. \$1.75; 50 lbs. \$3.40; 100 lbs. \$6.60.

### Blatchford's "Fill-the-Basket" EGG MASH



BLATCHFORD'S "Fill-the-Basket" Egg Mash contains 17 ingredients, thus providing the wide variety so necessary for maximum egg production—the elements needed to produce eggs that will hatch strong, vigorous chicks. Prices 25 lbs. \$1.00; 100 lbs. \$3.80.

### Blatchford's Chick Mash



BLATCHFORD'S Chick Mash is the favored starting and growing feed of the most prominent poultry-raisers in the country. It contains all the feeds and nutriment chicks need right from the start, and shields them from white diarrhea, bowel trouble, and leg weakness.

This mash is neither a tonic nor a medicine, but a nutritious, wholesome, palatable body-builder. It promotes health, vitality and growth by building up sturdy, disease-resistant frames.

By supplying proper nourishment to each and every part of the body, promotes steady and complete development in the shortest possible time without forcing.

It contains no screenings, hulls, or cheap by-products from the manufacture of breakfast foods, cereal foods, or scratch grains. It carries chicks all the way—starts, grows, and matures—without change of feed.

Prices 10 lbs. 70c; 25 lbs. \$1.60; 100 lbs. \$6.10.

### Blatchford's Essential Minerals for Poultry

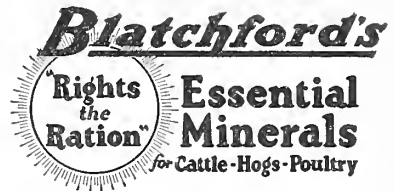
Protein .....	10.58%
Fat .....	.9%
Fibre .....	.45%
Carbohydrates .....	.40%
Calcium .....	56.00%
Phosphorus % .....	11.00%

Prices 10c lb.; \$6.00 cwt.

### Hog Minerals

Protein .....	3.4%
Carbohydrates .....	10.0%
Fat .....	.19%
Fibre .....	.6%
Calcium .....	62.0%
Phosphorus .....	15.0%
Iodine .....	.075%

Prices 10c lb.; \$6.30 cwt.



### Blatchford's Cattle Minerals

Cattle need mineral to produce bone, hoof, hide, hair, horn, blood and teeth—90 per cent of the ash of bone is mineral known as calcium and phosphorus.

A dairy cow that is yielding over 25 pounds of milk a day, requires additional mineral in her feed—6.2 per cent of the dry matter of cow's milk is mineral matter. Unless the cow has sufficient mineral matter, her milk flow will either be low, or she may rob her skeleton temporarily to supply mineral for the milk and thus break down her system.

The cow needs mineral also to build bone, hair, teeth, horn, hoof, blood and hide for her offspring. A deficiency of mineral in pregnant cows results in weak-boned calves—calves with rickets or goitre. It may also result in sterility or abortion.

Growing calves will develop much faster, be stronger and healthier, if a mineral balancer is added to the ration and it is in direct sunlight daily. A calf can only develop as fast as its frame and the frame is composed largely of mineral.

Mineral is also necessary to the profitable growth and function of heifers, bulls, dry cows and steers, and in addition to the mineral, all stock should be exposed to direct sunlight at least thirty minutes each day.

Prices 10c. lb.; \$6.40 cwt. F. O. B. Spokane.

Protein .....	2.25%
Carbohydrates .....	13.00%
Fat .....	.35%
Fibre .....	.87%
Calcium .....	55.00%
Phosphorus .....	9.00%
Iodine .....	.075%

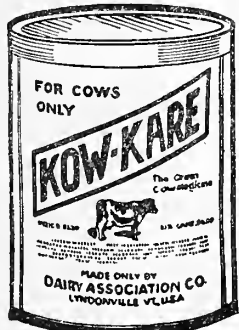
## Dairy Association Remedies

### KOW-KARE

Makes Poor Cows Good—Good Cows Better, and Makes More Money for Cow Owners

### "The Home Cow Doctor"

A handbook for cow owners, describing diseases that affect a cow's productivity and telling how to prevent and cure them in a single cow or a whole herd. Free on request.



KOW KARE is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of Bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It is the dairyman's gold mine, and a sure profit-payer. Medium cans, Mail wt. 2 lbs., Price 65c; Large cans, Mail wt. 4 lbs., \$1.25. Postage extra.



BAG BALM is used for all sores, cuts, scratches, chaps or exterior hurts—for caked bag, bunches and inflammation of the udder. It keeps the teats and udder soft, pliable and easy to milk. Wt. 8 oz, pkg. 60c. Postage extra.

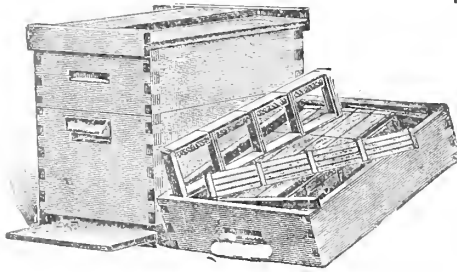
GRANGE GARGET REMEDY—An unsurpassed and positive cure. Wt. 2 lbs., can 65c, postage extra.

HORSE COMFORT—For wire cuts and flesh wounds. 30c bottles—wt. 1 lb., 60c; bottles—wt. 2 lbs., postage extra.

AMERICAN HORSE TONIC—A general improver for horses. 30c boxes—wt. 1 lb.; 65c boxes—wt. 2 lbs., postage extra.

# BEE SUPPLIES

## Spokane Seed Company's Hive Combinations



Our Western Pine hives are standard sizes and well made of select material dovetailed. Story and a half hives are preferred by many, consisting of brood chamber, brood frames, cover, bottom board, super for sections, with section holders and separators. Single story hives are equipped with brood frames, covers and bottom boards. Supers used for sections or for extracting with half Hoffman frames or hive bodies with full depth frames require no extra cover or bottom boards. In a complete hive we send one sheet of foundation as starter for brood frames and two sheets of super foundation for starter in sections. If full sheets are wanted, these must be ordered by the pound. Hives and supers are packed and shipped in crates of 5 K. D. and no less than 5 will be shipped K. D. except at nailed price, the added cost being for breaking crates and repacking.

**NOTE**—Original crates of five hives are too large for Parcel Post. Nailed hives and supers are sold at increased price to cover cost of nailing and these take a higher freight rate than crates K. D. All supers for sections take the regular size  $4\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{2}$  sections.

K. D. means Knocked Down. N means nailed.

One-Story Standard Hives Include		8-Fr.		10-Fr.	
Hive, Bottom, Body and Cover		Quan	Wt Price	Wt Price	
Hive with Brood Frames and Starter.....	1-N	22	\$ 3.05	24	\$ 3.50
Hive and Brood Frames, no Starter.....	1-N	21	2.95	24	3.40
Hive and Brood Frames, no Starter.....	5-KD	108	12.75	128	14.75
1½-Story Hive Includes Hive, Bottom, Body, Super and Cover		8-Fr.		10-Fr.	
		Quan	Wt Price	Wt Price	
Hive Brood Frames, Sections, Starter	1-N	25	4.65	30	5.20
Hive Brood Frames, no Sect. or Start.	1-N	28	4.10	35	4.60
Hive Brood Frames, no Sect. or Start.	5-KD	140	17.75	178	20.80
Covers .....	1-N		.85		.95
Covers .....	5-KD		3.75		4.15
Bottom Boards .....	1-N		.85		.95
Bottom Boards .....	5-KD		3.75		4.15
Hive Body, empty.....	1-N		.85		.95
Hive Body, empty.....	5-KD		3.75		4.15

### DOVETAILED SUPERS

This is one of the best Supers sold for the use of  $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$  sections having beeways. We use wood separators (or slotted separators), beeway sections and section holders having bottom bars scored out to correspond with the beeways in the section.

		8-Fr.		10-Fr.	
		Quan	Wt Price	Wt Price	
Complete with Sections and Starter.....	1-N		1.25		1.30
Complete, no Section or Starter.....	1-N		1.15		1.20
Complete, no Section or Starter.....	5-KD		5.00		5.25
Empty Super Frame Only .....	1-N		.60		.65
Empty Super, Frame only.....	5-KD		2.50		2.75
Extracting Frame .....	1-N		.60		.70
Extracting Frame .....	5-KD		2.50		3.00

Extracting supers are deeper and take the Half-Hoffman shallow extracting frames.

## Feeding Bees

A colony of Bees should have the frames in the Brood Chamber well filled before going into the winter season. An examination of the hives after the late honey flow will show their fitness for wintering, and if any are found light they should be fed before cold weather comes, as best results are obtained when working conditions are favorable and the bees can fly.

Do not delay feeding until Spring, as Spring feeding, owing to weather conditions, is seldom satisfactory, more often resulting in loss, whereas proper precautions taken in the early Fall will result in the bees coming through strong and ready for early work.

Syrup for feeding can be made by taking equal parts of water and granulated sugar—cane sugar being preferable—thoroughly dissolving this into a clear syrup and feeding in any of the standard types of feeders. If cane sugar cannot be obtained beet sugar can be used.

August and September are good months to feed in most sections.

**Send Us Your Beeswax—We Will Take It in Trade, or Pay You Cash**

## Comb Foundation

There is little question but that it pays to use foundation in full sheets in the brood frames and sections, especially the latter. If you think you cannot afford so much you should at least have a strip for a starter. It will help much more than it costs you in getting straight, even combs. You can use a starter any width from one inch up.

Our foundation is made by the "Weed process," and is a very superior article. Packed in 1, 2, 3, and 5-lb. cardboard boxes in a case.

When you order, be sure to tell what grade you want, and give price.

### PRICES OF COMB FOUNDATION

GRADE	Size of Sheets	No. per lb.	In Lots of	
			1 lb.	10 lbs.
Medium Brood.....	$7\frac{3}{4} \times 16\frac{3}{4}$	7	\$0.75	\$7.00
Extra Light Brood.....	$7\frac{3}{4} \times 16\frac{3}{4}$	9	.80	7.50
Light Section .....	$3\frac{3}{8} \times 15\frac{1}{2}$	28	.90	8.50
Extra Light Section.....	$3\frac{3}{8} \times 15\frac{1}{2}$	39	.95	9.00

## Section Honey Boxes

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects. They are not all snow-white, but vary from that to a light cream color.  $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$  always sent unless otherwise ordered.

S. S. Co's No. 1 per 100 \$1.75—per 500 \$8.00—per 1000 \$15.00.  
S. S. Co's No. 2 per 100 \$1.65—per 500 \$7.00—per 1000 \$13.50.

## Section Holders

Six section holders with separators, one follower and springs are put in each super, and each section holder holds four one-pound honey boxes. The bottom strip is  $\frac{1}{4}$ -inch thick and is cut out to fit insets of sections.

Western,  $1\frac{1}{2} \times 18\frac{1}{2}$  inches, slotted. Weight 20 lbs. per 100.  
Each 5c—per 100 \$4.90

Blocks— $1\frac{1}{2}$  Western. Per 100, \$1.25

Bottoms only— $1\frac{1}{2}$  in. wide, slotted. Western. Wt. 11 lbs. per 100.  
Each 3c—Per 100 \$2.50

## Separators

One separator should always be placed between each two section holders so that the bees will build the honey comb even in each section.

Western (Veneer) 8 lbs. per 100. Per 100 90c

## Hoffman Brood Frames

The Hoffman Improved Foundation Fastening Frames are the most satisfactory. Top bar has a beveled strip which holds foundation in place, perfectly straight and exactly in center of top bar.

	Per 10	Per 100
Improved F. F. Western Wt. per 10, $2\frac{1}{2}$ lbs.....	\$0.65	\$5.65
Half Hoffman Western, Wt. per 10, $2\frac{1}{2}$ lbs.....	.60	5.10

The Half Hoffman Frame is used in the Ideal super or shallow extracting super.

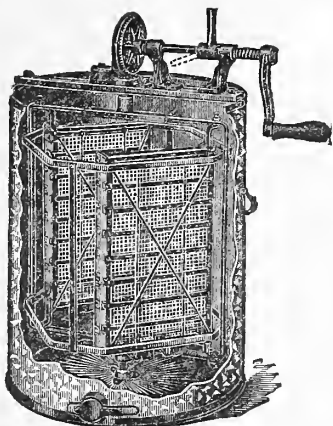
## New Metal Spaced Frame

Recommended where there is much propolis. Spacing is accurate and frames handle easily.

Per 10 85c—100 \$7.75. Weight per 10, 5 lbs.

Metal Spacers Only—Weight  $1\frac{1}{4}$  lbs. Per 100 \$1.00.

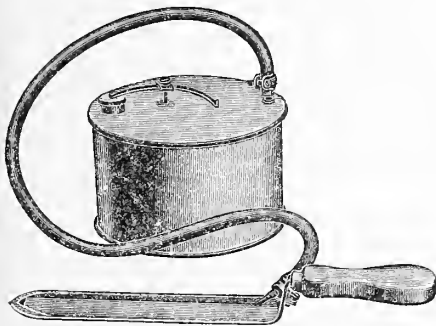
## BEE SUPPLIES—Continued

**S. S. CO.'S TWO-FRAME EXTRACTOR**

—Now takes the lead over all others in use, as it is easily reversed. Always the best machine when rapid work is required. Price \$35.00.

**VAN DEUSEN WAX TUBE FASTENER**

—For fastening foundation sheets to thin top-bars there is nothing better. It is a tube half an inch in diameter, six inches long and tapering. This is filled with hot wax, and point slowly drawn along edge of foundation in contact with top-bar, leaving a fine stream of hot wax to cement it. Price 45c each; by mail, 50c.

**ROOT STEAM HEATED UNCAPPING KNIFE**

For a large amount of uncapping, this knife is the best tool ever devised. Handle is one piece, fastened securely to blade. Will slice off cappings much more rapidly than a cold knife or one that has to be dipped in hot water. Knife is kept constantly hot, cappings slide off from it without sticking. The copper boiler used with this knife is equipped with a fool-proof safety valve. It is adjustable, and opening is also used as a filler hole. This boiler, in connection with a suitable oil or gasoline stove, completes outfit. Three feet of rubber steam hose furnished with knife. Steam heated 10-inch knife, 3-ft. tubing. Wt. 2 lbs. Price \$5.50. Steam boiler with safety valve for use with above. Wt. 3 lbs. Price \$3.00.

**ROOT NICKED STEEL HIVE TOOL**—Made of spring steel; will stand any strain as a pry or scraper; is the best tool made. Wt. 4 oz. Price, each, 65c.

**BINGHAM HONEY KNIFE**—Prices \$1.25; by mail, \$1.35.

**QUEEN BEES**

We are in a position to furnish untested Italian queens after the middle of April, weather conditions being favorable. It takes about seven days to get these in from the apiary, so do not expect queens by return mail. Untested Queen, May, June, July, August, Sept. Price \$2.00. Tested Queens cannot be furnished before May. Price, each \$2.50.

**BEES**

Heavy swarms, including hive without supers. \$10.00 to \$15.00 each, F. O. B. Spokane.

**ZINC HONEY BOARDS  
ROOT'S OR TINKERS**

Honey boards are used to confine the queen of the brood chamber, and are very generally used in the production of extracted honey. Nos. 1 and 11 are of unbound zinc, and are placed directly on top of frames. This allows bees to pass through holes directly over spaces between the frames. When placed on the dovetailed or other similar hives there is a bee space above and below the zinc.

**PRICES**

No. 11—8-frame, unbound, 12x19½ in. ....	\$0.45
No. 1—10-frame, unbound, 14x19½ in. ....	.50
No. 3—8-frame, wood and wire, 13½x20 in. ....	.90
No. 7—10-frame, wood and wire, 16x20 in. ....	1.00
3-frame, 7-wire .....	Each .80
10-frame, 7-wire .....	Each .90

**COMBINED DRONE AND QUEEN TRAP****IMPROVED WIRE FRONT**

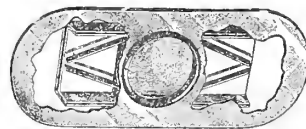
This is placed before entrance of hive, to catch and cage the drones in an apartment by themselves. They can then be carried to another apiary, or be destroyed. The trap will also catch the queen when a swarm issues, and hold her confined until the apiarist can give her his attention. As she cannot get away, the bees will, in all likelihood, return into the hive. An excellent non-swarming device. Directions for use are attached to each trap. Wt. 1 lb. Each, 3-frame \$1.00—10-frame \$1.10.

**BEE HEALTH**

**"EUREKA"**—Found at last, a treatment for American and European FOUL BROOD B-H. A clear, clean liquid, a preventive. If interested, send for Bulletin 638-B, this gives all details and information. Price, gallons each, \$3.00.

**COGSHALL'S BEE BRUSH**—For the wholesale brushing of bees off combs when extracting. 40c; by mail 45c.

**HANDY BEE BRUSH**—Horse hair. One of the best, most lasting brushes. Price 45c; by mail 50c.



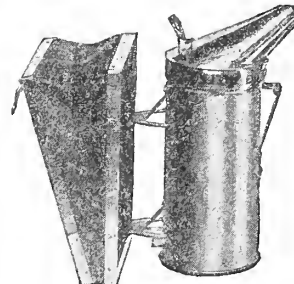
Porter bee-escape.

**PORTER BEE ESCAPE**—For use when taking off the honey. Does away with shaking the supers and smoking the bees. Saves stings. Simply slip an escape board between super and brood rest toward night.

Price, as per illustration, postpaid.....30c  
Price, mounted on board (weight 2¼ lbs.) not postpaid.....70c

**PORTER'S ESCAPE FOR HONEY HOUSES**

The escape shown above is designed for the hive, but this is especially made for use on doors and windows of workshops, extracting rooms and other places where bees get in, and it is desirable to get them out without the possibility of their returning. No extracting room will be complete without one or more of them. Weight 2 oz. Price 30c, postpaid.



Standard.

**BEE SMOKERS  
Root's Improved**

**Root's Improved Cornell**—Burns anything, preferably greasy rags for their dense smoke.

Small, 3x5½ in., wt. 2 lbs., ea. ....\$1.10  
Medium, 3½x7 in., wt. 2½ lbs., each. 1.60  
Large, 4x7 in., wt. 3 lbs., ea. ....\$2.00

**CLARK'S COLD BLAST SMOKER**

Probably the most popular smoker in use today is the cold blast, although many are now changing to the hot blast, claiming they are more effective. The Clark is the best low priced smoker. Weight, 1¼ lbs. Price \$1.10.

**ROOT'S FOUNDATION FASTENER**

Complete with lamp, weight 8 oz. Price 75c; without lamp 35c.

**DAISY FOUNDATION FASTENER**

One of the best for putting starters into sections. Easily operated. With lamp, Wt. 6½ lbs., \$2.50. Owing to danger of breakage, no chimney is sent with lamp.

**SEE ENTRANCE GUARDS—ROOT'S OR TINKER'S**

—These are to admit workers, and to exclude drones. After the drones are out, fix the guards over the entrance, at night the drones can be destroyed. Price, Zinc Front, 30c.

**IMPROVED WIRE FRONT.** Wt. 6 oz. Price, 3-frame, 35c—10-frame, 40c.

**PARKER'S FOUNDATION FASTENER**—Shows how used. Wt. 1 lb. Price 50c.



# BEE SUPPLIES—Continued

**ALEXANDER FEEDER**—Bottom board slides forward, feeder is placed at back and under hive. Bees go into feeder from brood chamber. Weight 1½ lbs. Price 75c.

**MILLER'S FEEDER**—Sets on the hive in space occupied by a super. Holds 25 pounds of syrup. Shuts all bees beneath, and they enter it from below. Syrup is poured in on either or both sides. Weight 5 lbs. Nailed up complete, each \$1.25; in flat, 90c.

**BOARDMAN'S FEEDER**—Weight ½ lb. Price, without jar, 35c.

**DIVISION BOARD FEEDER**—Made to hang in brood chambers, to one side or between the frames. Weight 1¼ lbs. Price 90c.



**HAT BEE VEILS**—Rubber band around top, to fit hat snugly.

(Postpaid)

No. 1—Silk tulle..\$1.60  
No. 2—Cotton tulle, with silk tulle face ..... 1.40  
No. 3—Cotton tulle ..... 1.20

**GLOBE BEE VEIL**—No trouble to put on or take off. Protection against mosquitoes, flies, bees, gnats, etc. Weighs only five oz. \$1.65.

**ALEXANDER**—Fine Bronze Wire Cloth. Stands clear of face; muslin top and bottom. Wt. 1 lb. Price \$1.50.

## BEEKEEPERS' GLOVES.

**CANVAS**—Long Sleeve, Oiled, Ladies' or Misses'. Price \$1.25—Postpaid \$1.35.

## "GLEANINGS IN BEE CULTURE"

Send us your subscription. Price \$1.00.

## MANUM'S SWARMING DEVICE

To hive a swarm, place the open basket under a cluster of bees, so that when they are shaken from their position they will fall into basket. Close lid, and as most of the bees will be inside, they can be carried and emptied into hive. Light and conveniently carried. Price, wire basket, without pole, ball only, \$2.50. Weight 3½ lbs.

**WEST QUEEN-CELL PROTECTOR**—Each, by mail, 10c.

**SPIRAL CAGES**—For holding queen after she hatches. Each 10c; by mail.

**DOOLITTLE CELL PROTECTORS**—Each, by mail, 10c.

## A B C and X Y Z of Bee Culture.

The new and revised edition of this work is the most complete and best book ever issued and is equally valuable to the advanced beekeeper as well as the beginner. Mailing weight 4 pounds. Price \$3.15.

## BEE HEALTH

Found at last, a treatment for American and European FOUL BROOD B-H. A clear, clean liquid, a preventative. If interested, send for Bulletin 638-B. This gives all details and information. Price, gallon each, \$3.00.

## CAGES FOR QUEENS.

**BENTON CAGE**—This is undoubtedly the best cage for mailing and is adapted likewise for introducing. Directions for introducing are printed on the cover. Price, no candy, by mail, 10c each, 100 \$8.00.

## HONEY SHIPPING CASES

These have a glass front, and are designed for marketing honey. If you expect the best market price, you must put your honey up in nice cases.

24-lb., 4¼x17½ Sections, Nailed, each.....25c  
24-lb. for 3½x5 Sections—Ideal, Nailed, each .....20c

## NO. 28 TINNED WIRE

1-oz. spools, each.....15c  
¼-lb. spools, each.....25c  
½-lb. spools, each.....40c  
1-lb. spools, each.....60c  
5-lb. coils, each.....\$2.50

Add postage if mailed.

## T-TINS AND RABBETS

	Per 10	Per 100
T. Rab., 12-in. ....	20c	\$1.90
14-in. ....	25c	2.00
T. Tins, 13-in. ....	25c	2.35
15-in. ....	25c	2.45
Fl. Tins, 13-in. ....	20c	1.40
15-in. ....	20c	1.40

Division Boards, wt. 5 oz., each 15c; 10 .....\$1.25  
Followers, each 6c; 10.....50c  
Tightening Springs, 12 for 15c; 100.....90c

**SPUR WIRE IMBEDDER**—This is like a tracing wheel, with the teeth set to firmly imbed the wire and not injure the comb. Price by mail, 50c.

## HATCH WAX PRESS

The most practical and satisfactory wax press, every part thoroughly tested to withstand the enormous strain placed upon a machine of this type. The quality of the wax is superior to that secured by other methods, and the economy and simplicity of operation makes the Hatch the best press for the average bee keeper. Price, each, \$20.00.

## VAN DEUSEN HIVE CLAMPS

Very convenient for fastening bottom board to hives and various other uses. They come in pairs. Without screws, per pair, 10c; 10 pairs, 90c; add 3c per pair postage for single pairs.

IF YOU OWN AN ORCHARD then you must of necessity have bees if you would secure the largest crops of most salable fruit, for proper pollination is essential to best development. A most interesting series of experiments on the Pollination of the Apple proves the total inadequacy of all pollenizing agents, with the single exception of Bees. The wind, which at first thought would seem dependable, is a total failure outside of the radius of a few feet, even under most favorable conditions, and very uncertain at any distance. Some few varieties are self-fertilizing, but these are vastly improved by crossing the pollen with other sorts, and the busy honey bee seems to be our sole reliance for effective work. Fortunately bees are easily obtained, are very little trouble, and an orchard and apiary make an ideal combination from a business standpoint. This subject is well worthy the careful investigation of all orchardists, and we would be pleased to hear from those interested.

## CAUTION AGAINST SPRAYING WHEN TREES ARE IN FULL BLOOM

The best authorities advise against spraying until blossoms are ripe and falling, as by this time pollination is complete and spraying will accomplish its purpose from this time until calyx closes.

Spraying when trees are in bloom may destroy bees and other insects necessary to pollinate and these natural agents should not be interfered with as their work of transferring the pollen insures bountiful crops and shapely fruit.

This is generally understood by the best informed orchardists and growers and in many states there are laws against spraying when fruit is in flower.

Damage to fruit is often unjustly charged to bees for they cannot pierce the skin of even the softest fruits, but where there is a scarcity of blossoms, they will often work on fruit that has been bruised, damaged by birds or cracked by the weather, but are unable to destroy sound fruit of any variety.

## SOW BUCKWHEAT FOR FALL BEE PASTURAGE

To insure plenty of winter stores for your bees, sow buckwheat any time in the late spring or early summer. It will bloom in about sixty days from planting and give an abundance of nectar much sought after by the bees. The honey is dark but makes good winter stores.

# BEGINNERS' OUTFIT

To the inexperienced we recommend the following complete equipment—all that is necessary except the bees—these you can generally purchase near your home and save the express charges, if not we can supply them.

- 1 COPY A B C AND X Y Z BEE CULTURE.
- 1 FIG. 1/3 WESTERN CEDAR HIVE.
- 1 CLARK'S COLD BLAST SMOKER.
- 1 BEE VEIL NO. 2.
- 1 PARKER FOUNDATION FASTENER.
- 1 PORTER BEE ESCAPE, MOUNTED.
- 1 PAIR LONG CANVAS GLOVES.

"GLEANINGS IN BEE CULTURE"—The best bee magazine published, will be included with this outfit—a year's subscription.

PRICE WITHOUT BEES, \$11.00, F. O. B. SPOKANE.

BEES can usually be purchased near your home and it is best to have them examined by an experienced man to see that the colony is in a healthy condition.

ITALIAN BEES (the leather colored), are to be preferred, but any strong colony is all right, for we can supply pure bred Italian Queens that will soon Italianize the colony as the worker bees live but a short time. If unable to get bees, write us, we will try and secure them for you.

# PET STOCK SUPPLIES

## Spratt's Dog Foods and Remedies

We are selling agents for these famous preparations which have the endorsement of the big breeders and fanciers—and are the standard in their line.

We can only list a few items in this catalogue, but will mail free to dog owners "Spratt's Dog Culture," which gives reliable and interesting advice and information on the care of dogs and tells about "Spratt's preparations.



**Spratt's Meat Fibrine Dog Cakes**—For sixty years the standard dog food, used by the leading breeders and fed at the principal dog shows throughout the world. The best results are obtained by giving the biscuits dry, not soaked, thereby compelling the dog to gnaw the food and thus producing a copious flow of saliva which materially aids digestion.

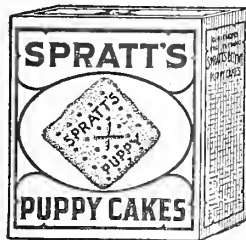
Bags, 100 lbs., \$12.95; 50 lbs., \$6.60; 25 lbs., \$3.40; 10 lbs. \$1.55; 5 lbs., 80c. Cartons, 45c.

F. O. B. Spokane.

**Spratt's Meat Fibrine Puppy Biscuits**—A complete and perfect food for puppies from weaning time onwards, and for small breeds as the regular food instead of Spratt's larger Dog Cakes.

Bags, 100 lbs., \$13.45; 50 lbs., \$6.85; 25 lbs., \$3.55; 10 lbs., \$1.60; 5 lbs., 85c. Cartons, 50c.

F. O. B. Spokane.



**Spratt's Fibo**—A unique granulated food, containing a large percentage of Spratt's world-famous Meat Fibrine. It is very appetizing and highly recommended for shy and dainty feeders, as a change of diet or as a suitable food for any dog at any time. Can be given either dry or soaked.

Bags, 100 lbs., \$14.95; 50 lbs., \$7.60; 25 lbs., \$3.90; 10 lbs., \$1.75; 5 lbs., 90c. Cartons, 50c.

F. O. B. Spokane.



**Spratt's Ovals**—The Pocket Dog Biscuit. A small Meat-Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog.

Bags, 100 lbs., \$13.95; 50 lbs., \$7.10; 25 lbs., \$3.65; 10 lbs., \$1.65; 5 lbs., 85c. Cartons, 45c.

F. O. B. Spokane.



## Spratt's Famous Soaps

**Spratt's Patent Dog Soap (White)** for Fleas, Lice, etc., postpaid.....25c

**Spratt's Patent Antiseptic Soap (Black)** for Veterinary Use, etc. postpaid, each .....60c

**Spratt's Flea Powder**—Aids in removing certain parasites from dogs, cats and other animals; per tin, postpaid .....30c



## Spratt's Dog Medicines

Price Includes Postage, Except Where Noted.

Spratt's Cooling and Alternative Tablets. For heated blood, etc. ....	\$0.60
Spratt's Anti-Asthmatic Tablets. For Asthma, etc. ....	.60
Spratt's Anti-Vomit Tablets.....	.60
Spratt's Bone Builder. For Rickets, Osteoporosis, etc. ....	.75
Spratt's Consumption Capsules. Of great value in the arrest and treatment of this disease.....	.60
Spratt's Chorea Tablets. For Chorea, St. Vitus' Dance, etc. ....	.60
Spratt's Constipation Tablets. A gentle and effective laxative .....	.60
Spratt's Digestive Tablets. For severe cases of indigestion .....	.60
Spratt's Diarrhoea Tablets. To relieve diarrhoea, which usually follows change of food, etc.....	.60
Spratt's Distemper Tablets. May be used as a preventive .....	1.00
Spratt's Ear Canker Ointment. For both internal and external forms of this disease.....	.75
Spratt's Eye Lotion Tablets. A safe and efficient remedy .....	.60
Spratt's Eczema and Sarcopic Mange Medicine.....	.60
Spratt's Hair Stimulant and Restorer.....	.60
Spratt's Kidney Tablets. For Cystitis or Inflammation of the Bladder, etc.....	.60
Spratt's Liniment. For Rheumatism, Sprains, Bruises, Lameness, etc., and may be used for human treatment as well .....	.60
Spratt's Liver Tablets. A safe and reliable remedy.....	.60
Spratt's Locurium Ointment. For Wounds and Cuts, Bruises, etc. Good for man as well as beast.....	.60
Spratt's Mange Medicine.....	.75
Spratt's Pneumonia Tablets. Administer as soon as possible .....	.60
Spratt's Purgative Tablets. Perfectly safe and effective....	.60
Spratt's Rheumatism Tablets. For internal treatment.....	.60
Spratt's Tonic and Condition Tablets. To build up after sickness to put in bench show form, etc.....	.60
Spratt's Worm Capsules. An expellent of Round, Maw and Tape-Worms .....	.60
Spratt's Worm Capsules for Puppies. May be given with perfect safety to puppies from six weeks to six months..	.60
Spratt's Tonic and Condition Tablets for Toy Dogs and Puppies .....	.60
Spratt's Distemper Tablets for Toy Dogs and Puppies.....	1.00
Spratt's Vermifuge Capsules for Toy Dogs and Puppies.....	.60

## SPRATT'S HINTS

ON THE

## Care and Feeding of Dogs

WITH NOTES ON

## CANINE DISEASES

## And Their Treatment

SEND FOR FREE COPY

# BIRD AND CAT FOODS

## SPRATT'S EGG, FRUIT AND SEED CANARY MIXTURE



Totally unlike any other mixture prepared for regular canary-feeding. Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change.

The quality of the European Canary Seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song.

Price, postpaid, 30c.

## CAGE BIRDS WANT SPRATT'S "SING-SONG"

Price per pkg. 20c, postpaid.



**SPRATT'S COD LIVER OIL CAGE BIRD AND NESTLING FOOD**—For feeding young birds and old birds in the moulting season. A tonic and flesh and bone maker. Unequalled as an aid to feather growth. In 4 oz. packages. Each 20c.

Prices Postpaid on the following unless otherwise stated:

Spokane Seed Co. Mixture, per pkg.....	\$0.25
Bulk .....	Per lb. 20c; 10 lbs. 1.75
Canary Seed, Recleaned.....	Per lb. 20c; 10 lbs. 1.75
Hemp, Recleaned .....	Per lb. 20c; 10 lbs. 1.75
Rape, Sweet Summer.....	Per lb. 20c; 10 lbs. 1.75
Millet, Recleaned .....	Per lb. 20c; 10 lbs. 1.75
Bird Gravel, per pkg.....	.20
Bird Manna.....	Per pkg. 20c; per doz. 2.00
Cuttle Bone.....	Each 10c; per doz. .75
Bird Tonic, each.....	.20
Spratt's Song Restorer, each.....	.30
Bird Nest, each.....	.15
Nesting Hair .....	.15
Bath Dishes, opal or plain.....	15c, each; postpaid 20c
Bird Lice Destroyer and Gun, price.....	.30
Cod Liver Oil, price.....	.30
Coloring Food, package, price.....	.30
Red-Mite Liquid, price.....	.30

## PARROT FOOD

Spokane Seed Co. Mixture, our own, unexcelled for Parrots. The best formula known. 20c lb.; 2 lbs. for 35c. Postage extra.

## PARROT SUNFLOWER

Specially selected, heavy meat and sweet. 15c lb.; 5 lbs. for 60c. Postage extra.

## FISH FOODS

Spratt's Genuine Fish Foods, in wafer form, per pkg..... 10c

Spratt's Aquarium Fish Food. Will not foul the water. Small size, per pkg.....10c

## SPRATT'S CAT FOODS AND REMEDIES

Spratt's Cat Food is composed of a combination of meat, cereals, etc., mixed together in the correct proportion to form a balanced ration and cats fed on it can be kept in the best of health all the year round.

It is suitable for both long and short haired breeds. Kittens, as soon as they leave their mothers should be fed on it.

### DIRECTIONS FOR FEEDING

Spratt's Cat Foods can be fed dry or moistened by adding a little milk or water, mixing to a crumbly moist consistency. Occasionally as a change it is advisable to pour a little soup or gravy or fat over the mixture. Price per package 50c, postpaid.

**SPRATT'S FISH CAT FOOD**—Use this as a change of diet, especially during the summer months. Postpaid, each, 45c.

**SPRATT'S MALTED KITTEN FOOD**—Thousands of kittens that are somewhat delicate at birth or that are without stamina, die for want of proper food and nourishment. It is very highly prized in England, and is daily becoming more popular in this country. Postpaid, 50c.

**SPRATT'S PEPSINATED MEAL**—For Delicate Kittens. Should be used for kitten with weak digestion; is easily assimilated and will make most unpromising youngsters thrive. Postpaid, each, 50c.

## SPRATT'S CAT MEDICINES

**Spratt's Distemper Tablets**—May be used as preventive. Price, \$1.00 postpaid.

**Spratt's Worm Capsules**—An expellent of round, maw and tape worms. Price, 60c, postpaid.

**Spratt's Tonic and Condition Tablets**—To build up after sickness, and to put in show form, etc. Price, 60c, postpaid.

**Spratt's Purgative Tablets**—Perfectly safe and thoroughly effective. Price, 60c, postpaid.

**Spratt's Diarrhoea Tablets**—A soothing and effective treatment. Price, 60c, postpaid.

**Spratt's Constipation Tablets**—A gentle and effective laxative. Price, 60c, postpaid.

**Spratt's Digestive Tablets**—Should be given after meals. Price, 60c, postpaid.

## Hints on Canary Feeding

ASK FOR FREE COPY.

## Hints on Feeding Cats

ASK FOR FREE COPY.

# SPOKANE SEED COMPANY

## REFERENCE TABLES

### QUANTITY OF SEED TO SOW A SINGLE ROW OF 100 YARDS

Asparagus.....8 oz.	Cauliflower.....2 oz.	Leek.....2 oz.	Peas.....6 lbs.
Beans, Bush.....6 lbs.	Celery.....3 oz.	Lettuce.....2 oz.	Pepper.....1 oz.
Beans, Lima.....6 lbs.	Collards.....3 oz.	Melon, Musk.....2 oz.	Pumpkin.....2 oz.
Beans, Pole.....6 lbs.	Corn.....1 lb.	Melon, Water.....3 oz.	Radish.....6 oz.
Beet.....5 oz.	Cress.....4 oz.	Mustard.....4 oz.	Rhubarb.....4 oz.
Broccoli.....1 oz.	Cucumber.....4 oz.	Onion (for large bulbs).....1 oz.	Spinach.....6 oz.
Brussels Sprouts.....1 oz.	Egg Plant.....1 oz.	Onion (for sets).....8 oz.	Squash.....3 oz.
Cabbage.....2 oz.	Endive.....2 oz.	Parsley.....2 oz.	Tomato.....1 oz.
Carrot.....3 oz.	Kohl Rabi.....2 oz.	Parsnip.....3 oz.	Turnip.....3 oz.

### AVERAGE TIME REQUIRED FOR MATURITY OF GARDEN CROPS FROM THE DAY OF PLANTING THE SEED

Beans, String.....45 to 65 days	Corn.....70 to 120 days	Radish.....25 to 35 days
Beans, Shell.....65 to 75 days	Egg Plant.....135 to 150 days	Spinach, average time.....30 to 60 days
Beet, Table.....55 to 65 days	Lettuce, Heading.....55 to 65 days	Squash, Summer.....60 to 65 days
Beets, Stock.....130 to 150 days	Melon, Water.....125 to 140 days	Squash, Winter.....125 days
Cabbage, Early.....90 to 105 days	Melon, Musk.....120 to 140 days	Tomato.....135 to 150 days
Cabbage, Late.....125 to 150 days	Onion.....130 to 150 days	Turnip.....50 to 70 days
Cauliflower.....85 to 100 days	Pepper.....130 to 140 days	

### AVERAGE TIME REQUIRED FOR GARDEN SEED TO GERMINATE

Beans.....4 to 7 days	Cucumber.....6 to 10 days	Parsley.....15 to 21 days
Beet.....7 to 10 days	Endive.....5 to 10 days	Pepper.....9 to 14 days
Cabbage.....4 to 7 days	Lettuce.....4 to 8 days	Radish.....3 to 6 days
Carrot.....10 to 15 days	Onion.....7 to 10 days	Spinach.....5 to 12 days
Cauliflower.....5 to 10 days	Peas.....5 to 8 days	Salsify.....7 to 12 days
Corn.....4 to 8 days	Parsnip.....10 to 20 days	Tomato.....6 to 12 days
		Turnip.....3 to 7 days

### WEIGHTS OF VARIOUS ARTICLES—PER BUSHEL

Artichokes.....60 lbs.	Cheat.....34 lbs.	otherwise.....32 lbs.	Rye.....56 lbs.
Barley.....48 lbs.	Clover Seed.....60 lbs.	stated).....14 lbs.	Red Top.....14 lbs.
Beans.....60 lbs.	Corn, Shelled.....56 lbs.	Hemp Seed.....44 lbs.	Red Top.....14 lbs.
Buckwheat.....48 lbs.	Corn, Sweet.....50 lbs.	Hungarian Millet.....48 lbs.	Solid Seed.....42 lbs.
Blue Grass.....21 lbs.	Charcoal.....22 lbs.	Lawn Grass.....20 lbs.	Sweet Corn.....50 lbs.
Kentucky.....24 lbs.	Emmer.....40 lbs.	Meadow Fescue.....24 lbs.	Timothy.....45 lbs.
English.....24 lbs.	Flax Seed.....56 lbs.	Millet.....20 lbs.	Vetches.....70 lbs.
Canary Seed.....60 lbs.	Grass Seeds (unless.....32 lbs.	Oats.....32 lbs.	Wheat.....60 lbs.

### Number of Plants Produced From An Ounce of Seed

Plants	about 300	Kale.....about 2,000
Asparagus.....	about 300	Leek.....1,000
Broccoli.....	2,000	Lettuce.....3,000
Cabbage.....	2,000	Pepper.....2,000
Cauliflower.....	2,000	Tomato.....3,000
Celery.....	3,000	Sage.....1,000
Egg Plant.....	1,000	Thyme.....3,000
Endive.....	3,000	

### NUMBER OF PLANTS TO THE ACRE

Distance Apart	No. of Plants	Distance Apart	No. of Plants
1 foot by 1 foot.....	43,560	3 feet by 3 feet.....	4,810
1 1/2 feet by 1 1/2 feet.....	19,360	4 feet by 4 feet.....	2,722
2 feet by 2 feet.....	10,530	5 feet by 5 feet.....	1,742
2 1/2 feet by 2 1/2 feet.....	6,969	6 feet by 6 feet.....	1,210
3 feet by 3 feet.....	7,600	8 feet by 8 feet.....	680

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*Complete*  
Seed Annual  
1927



SPOKANE SEED CO.

906-8-10 First Avenue

*Spokane, Washington*